

Figure 1

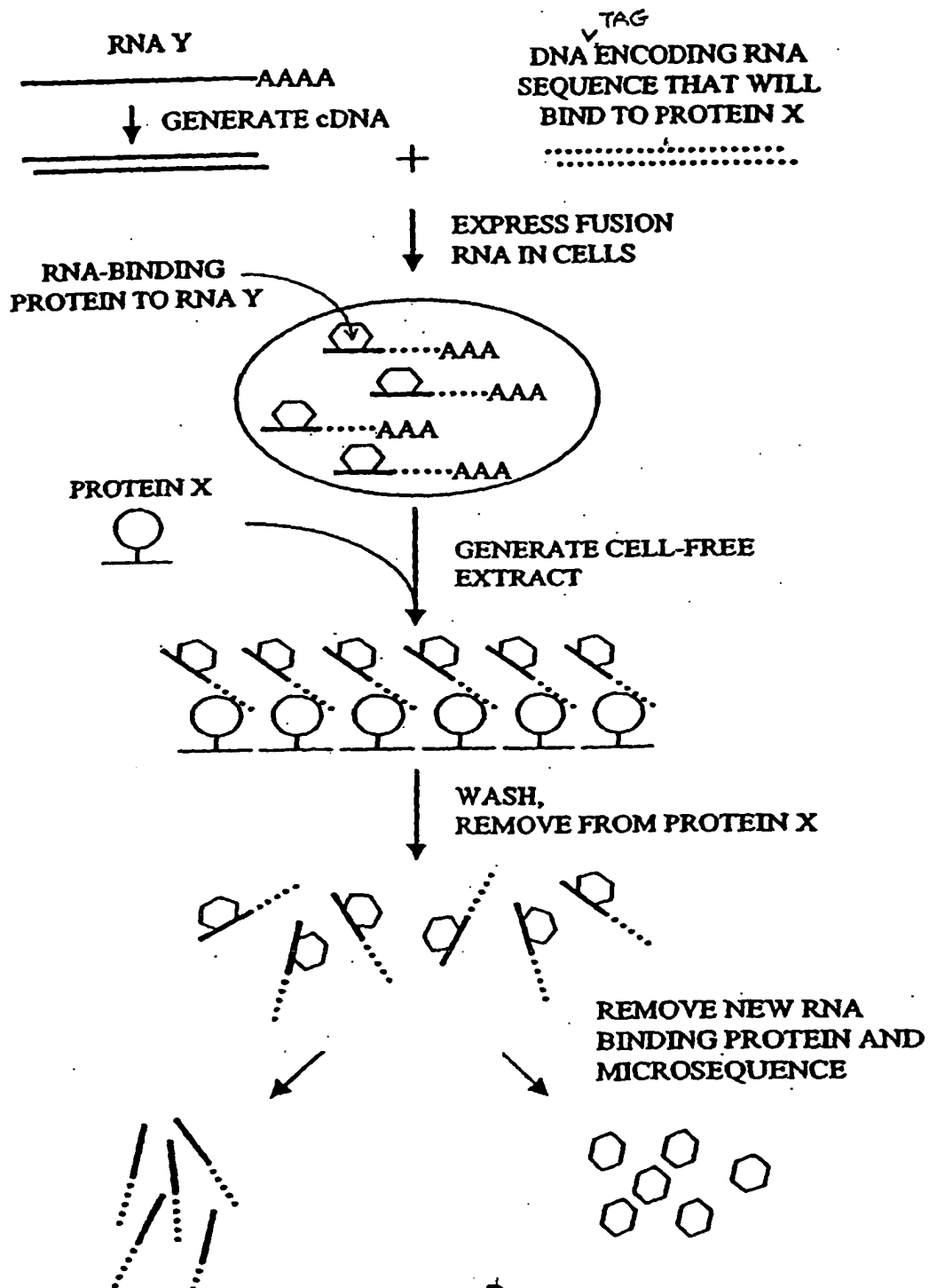


Figure 2

Ribonome

The Ribonome is the entire collection of RNAs and their associated RNA binding proteins (RBPs).

Ribonomic Clusters

RAST™ segregates the ribonome into distinct ribonomic 'clusters' based upon a specific RBP. Genes within each cluster are identified by microarray.

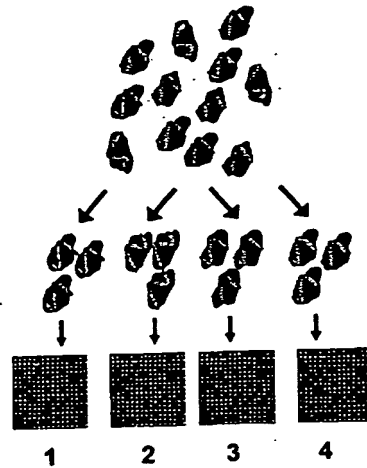


Figure 3

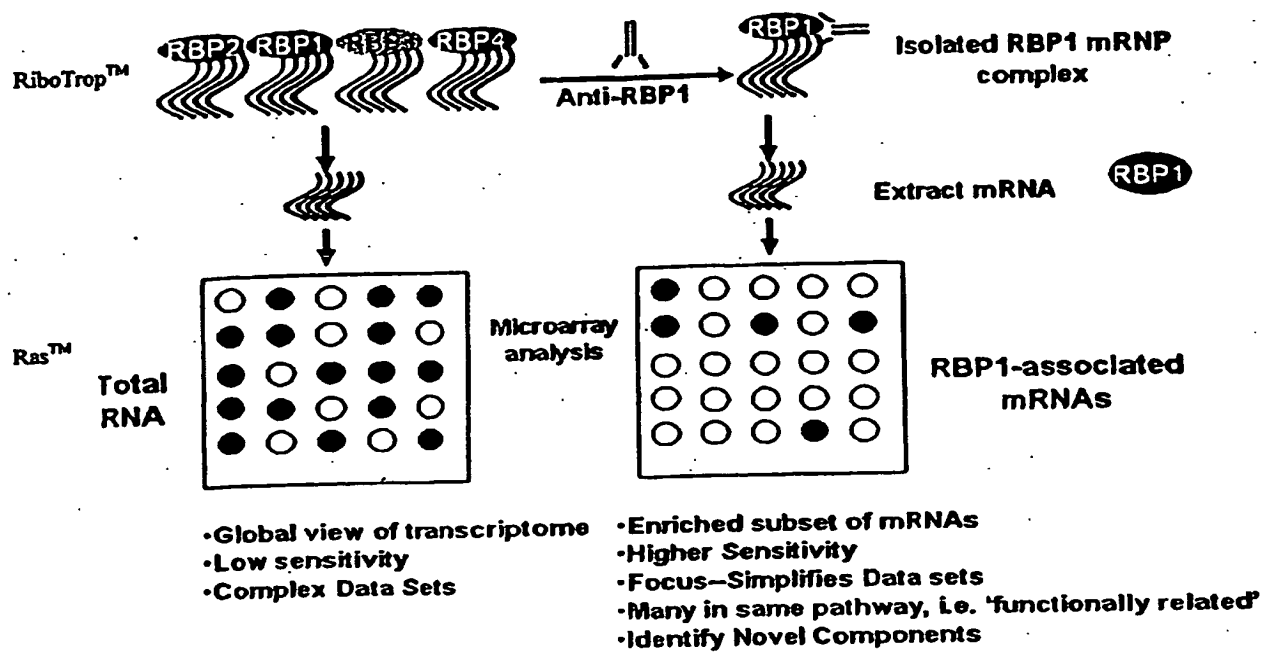


Figure 4

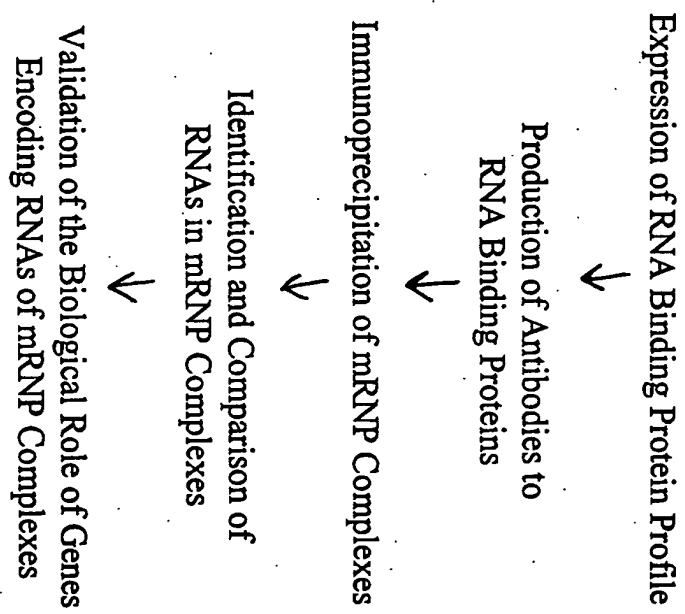


Figure 5

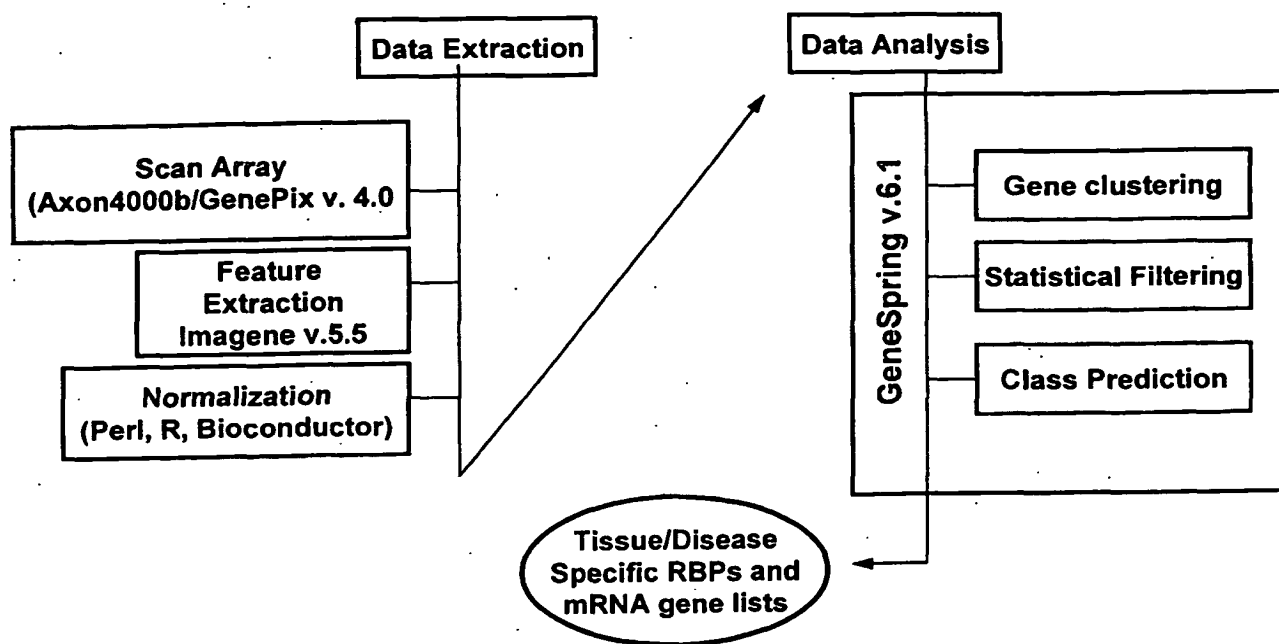


Figure 6

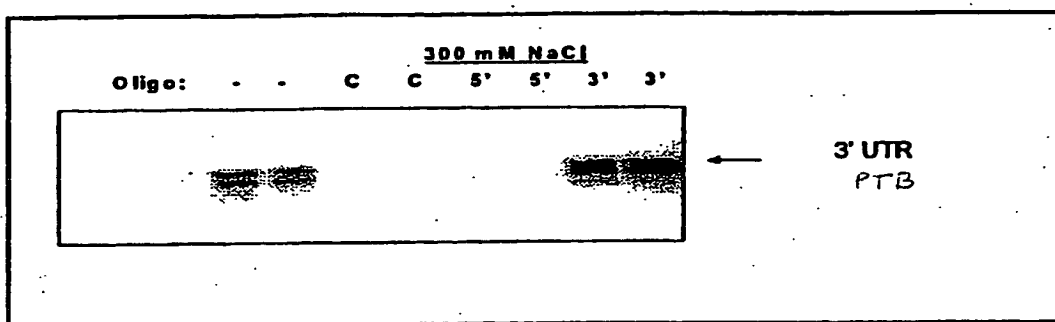
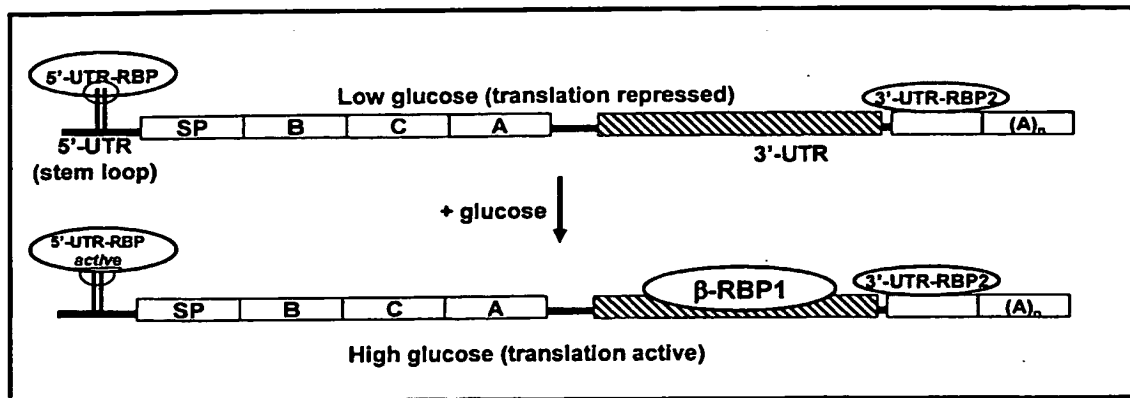


Figure 7



Model for binding of RBPs to preproinsulin mRNA

Figure 8

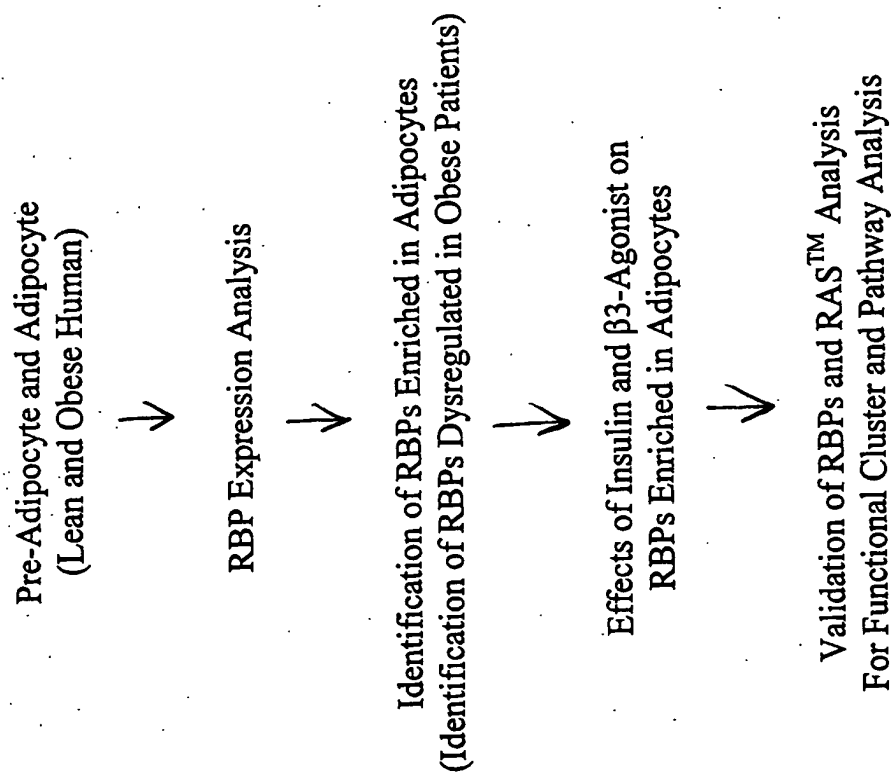


Figure 9

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank		Description
		Accession Number or Manufacturer Sequence Reference		
NM_008413	RPP30	NP_008404		Homo sapiens ribonuclease PMP30 30kDa subunit (RPP30), mRNA.
NM_020967	NCOA5	NP_066018		Homo sapiens nuclear receptor coactivator 5 (NCOA5), mRNA.
NM_005058	RBMY1A1	NP_005049		Homo sapiens RNA binding motif protein, Y-linked, family 1, member A1 (RBMY1A1), mRNA.
NM_018380	DDX28	NP_060850		Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 28 (DDX28), nuclear gene encoding mitochondrial protein, mRNA.
NM_020158	RRP46	NP_064543		Homo sapiens exosome component Rrp46 (RRP46), mRNA.
XM_062047	LOC120470	XP_062047		Homo sapiens similar to discs, large (Drosophila) homolog 2; chapsyn-110 (LOC120470), mRNA.
NM_003429	ZNF85	NP_003420		Homo sapiens zinc finger protein 85 (HPF4, HTF1) (ZNF85), mRNA.
NM_005437	NCOA4	NP_005428		Homo sapiens nuclear receptor coactivator 4 (NCOA4), mRNA.
NM_000281	PCBD	NP_000272		Homo sapiens 6-pyruvoyl-tetrahydropterin synthase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) (PCBD), mRNA.
NM_022915	MRPL44	NP_075066		Homo sapiens mitochondrial ribosomal protein L44 (MRPL44), nuclear gene encoding mitochondrial protein, mRNA.
XM_068863	LOC134477	XP_068863		Homo sapiens similar to Hypothetical protein CGI-79 (LOC134477), mRNA.
AK000256		BAA91036		Homo sapiens cDNA FLJ20249 fis, clone COLF6621.
NM_002197	ACO1	NP_002188		Homo sapiens aconitase 1, soluble (ACO1), mRNA.
XM_066446	LOC139051	XP_066446		Homo sapiens similar to pol protein (LOC139051), mRNA.
NM_000989	RPL30	NP_000980		Homo sapiens ribosomal protein L30 (RPL30), mRNA.
NM_005119	THRAP3	NP_005110		Homo sapiens thyroid hormone receptor associated protein 3 (THRAP3), mRNA.
AF254411	SR-A1	AAF87552		Homo sapiens ser/arg-rich pre-mRNA splicing factor SR-A1 (SR-A1) gene, complete cds.
NM_006311	NCOR1	NP_006302		Homo sapiens nuclear receptor co-repressor 1 (NCOR1), mRNA.
M58511	IRE-BP2/IRP2	AA669901		Human iron-responsive element-binding protein/iron regulatory protein 2 (IRE-BP2/IRP2) mRNA, partial cds.

FIGURE 10

11/89

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description
XM_065361	LOC129715	XP_065361		Homo sapiens similar to tudor protein (LOC129715), mRNA.
NM_019038	TDRD4	NP_061911		Homo sapiens tudor domain containing 4 (TDRD4), mRNA.
NM_022768	RBM15	NP_073605		Homo sapiens RNA binding motif protein 15 (RBM15), mRNA.
NM_000077	CDKN2A	NP_000068		Homo sapiens cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4) (CDKN2A), transcript variant 1, mRNA.
AB011167	KIA00595	BAA25521		Homo sapiens mRNA for KIA00595 protein, partial cds.
NM_022360	FAM12B	NP_071755		Homo sapiens family with sequence similarity 12, member B (epididymal) (FAM12B), mRNA.
XM_091042	LOC161682	XP_091042		Homo sapiens similar to data source:MGD, source key:MGI:107795, evidence:ISS-heterogeneous nuclear ribonucleoprotein C-putative (LOC161682), mRNA.
XM_089062	LOC148866	XP_089062		Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC148866), mRNA.
XM_063247	LOC122648	XP_063247		Homo sapiens similar to putative pancreatic ribonuclease (LOC122648), mRNA.
XM_061549	LOC119579	XP_061549		Homo sapiens LOC119579 (LOC119579), mRNA.
NM_016200	LSM8	NP_057284		Homo sapiens LSM8 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM8), mRNA.
NM_017993	FLJ10094	NP_060463		Homo sapiens hypothetical protein FLJ10094 (FLJ10094), mRNA.
XM_061319	LOC119177	XP_061319		Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC119177), mRNA.
NM_007372	DDX42	NP_031398		Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 42 (DDX42), transcript variant 1, mRNA.
XM_092489	LOC165271	XP_092489		Homo sapiens similar to heterogeneous nuclear ribonucleoprotein K (LOC165271), mRNA.
NM_000967	RPL3	NP_000958		Homo sapiens ribosomal protein L3 (RPL3), mRNA.
NM_033117	RBM18	NP_149108		Homo sapiens RNA binding motif protein 18 (RBM18), mRNA.
AF285599	STK31	AAK31978		Homo sapiens serine/threonine kinase 31 (STK31) mRNA, complete cds.
NM_007363	NONO	NP_031389		Homo sapiens non-POU domain containing, octamer-binding (NONO), mRNA.
NM_002939	RNH	NP_002930		Homo sapiens ribonuclease/angiogenin inhibitor (RNH), transcript variant 1, mRNA.

Figure 10

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description
XM_066901	LOC139801	XP_066901	Homo sapiens LOC139801 (LOC139801), mRNA.	
NM_006074	TRIM22	NP_006065	Homo sapiens tripartite motif-containing 22 (TRIM22), mRNA.	
XM_070605	LOC137786	XP_070605	Homo sapiens similar to ANTIGEN GOR (LOC137786), mRNA.	
XM_090917	LOC161461	XP_090917	Homo sapiens LOC161461 (LOC161461), mRNA.	
XM_093219	LOC170270	XP_093219	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A3 homolog 2 (hnRNP A3(B)) (LOC170270), mRNA.	
NM_004294	MTRF1	NP_004285	Homo sapiens mitochondrial translational release factor 1 (MTRF1), nuclear gene encoding mitochondrial protein, mRNA.	
NM_001605	AARS	NP_001596	Homo sapiens alanyl-tRNA synthetase (AARS), mRNA.	
XM_068154	LOC133037	XP_068154	Homo sapiens LOC133037 (LOC133037), mRNA.	
XM_094140	LOC166863	XP_094140	Homo sapiens similar to Apobec-1 complementation factor, APOBEC-1 stimulating protein (LOC166863), mRNA.	
X99302	pop1	CAA67684	H. sapiens mRNA for Pop1 protein.	
XM_066606	LOC139272	XP_066606	Homo sapiens similar to eukaryotic initiation factor 4B (LOC139272), mRNA.	

Figure 10

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product		Description
		GeneBank	Accession Number or Manufacturer Sequence	
		Reference		
XM_070830	LOC138280	XP_070830	Homo sapiens similar to KIAA1138 protein (LOC138280), mRNA.	
XM_092489	LOC165271	XP_092489	Homo sapiens similar to heterogeneous nuclear ribonucleoprotein K (LOC165271), mRNA.	
NM_006413	RPP30	NP_006404	Homo sapiens ribonuclease P/MRP 30kDa subunit (RPP30), mRNA.	
NM_002934	RNASE2	NP_002925	Homo sapiens ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin) (RNASE2), mRNA.	
NM_005058	RBMY1A1	NP_005049	Homo sapiens RNA binding motif protein, Y-linked, family 1, member A1 (RBMY1A1), mRNA.	
NM_022360	FAM12B	NP_071755	Homo sapiens family with sequence similarity 12, member B (epididymal) (FAM12B), mRNA.	
XM_065361	LOC129715	XP_065361	Homo sapiens similar to tudor protein (LOC129715), mRNA.	
NM_020967	NCOA5	NP_066018	Homo sapiens nuclear receptor coactivator 5 (NCOA5), mRNA.	
NM_001024	RPS21	NP_001015	Homo sapiens ribosomal protein S21 (RPS21), mRNA.	
NM_006187	OAS3	NP_006178	Homo sapiens 2'-5'-oligoadenylate synthetase 3, 100kDa (OAS3), mRNA.	
NM_031994	RNF17	NP_114383	Homo sapiens ring finger protein 17 (RNF17), transcript variant short, mRNA.	
XM_060358	LOC127164	XP_060358	Homo sapiens similar to TAR DNA binding protein (LOC127164), mRNA.	
NM_002534	OAS1	NP_002525	Homo sapiens 2'-5'-oligoadenylate synthetase 1, 40/46kDa (OAS1), transcript variant E16, mRNA.	
NM_018380	DDX28	NP_060850	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 28 (DDX28), nuclear gene encoding mitochondrial protein, mRNA.	

Figure 11

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product		Description
		GeneBank Accession Number or Manufacturer Sequence Reference	GeneBank Accession Number or Manufacturer Sequence Reference	
NM_025134	FLJ12178	NP_079410		Homo sapiens hypothetical protein FLJ12178 (FLJ12178), mRNA.
XM_065361	LOC129715	XP_065361		Homo sapiens similar to tudor protein (LOC129715), mRNA.
NM_004768	SFRS11	NP_004759		Homo sapiens splicing factor, arginine/serine-rich 11 (SFRS11), mRNA.
XM_066446	LOC139051	XP_066446		Homo sapiens similar to pol protein (LOC139051), mRNA.
NM_004592	SFRS8	NP_004583		Homo sapiens splicing factor, arginine/serine-rich 8 (suppressor-of-white-apricot homolog, Drosophila) (SFRS8), transcript variant 2A, mRNA.
XM_069688	LOC136068	XP_069688		Homo sapiens LOC136068 (LOC136068), mRNA.
NM_022830	FLJ22347	NP_073741		Homo sapiens hypothetical protein FLJ22347 (FLJ22347), mRNA.
NM_013235	RNASE3L	NP_037367		Homo sapiens nuclear RNase III Drosha (RNASE3L), mRNA.
NM_003758	EIF3S1	NP_003749		Homo sapiens eukaryotic translation initiation factor 3, subunit 1 alpha, 35kDa (EIF3S1), mRNA.
NM_005381	NCL	NP_005372		Homo sapiens nucleolin (NCL), mRNA.
NM_001145	ANG	NP_001136		Homo sapiens angiogenin, ribonuclease, RNase A family, 5 (ANG), mRNA.
XM_067085	LOC140121	XP_067085		Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein G (hnRNP G) (RNA binding motif protein, X chromosome) (LOC140121), mRNA.
XM_012968	LOC151921	XP_012968		Homo sapiens similar to chromosome 20 open reading frame 14; putative mitochondrial outer membrane protein import receptor; similar to yeast pre-mRNA splicing factors, Prp1Zer and Prp6 (LOC151921), mRNA.
NM_006170	NOL1	NP_006161		Homo sapiens nucleolar protein 1, 120kDa (NOL1), mRNA.
NM_005617	RPS14	NP_005608		Homo sapiens ribosomal protein S14 (RPS14), mRNA.

Figure 12

Nucleotide			Protein Product		
GenBank	Accession	Number or	Gene Name or	GeneBank	Description
Manufacturer	Sequence ID	Manufacturer	Probe Name	Accession	
NM_006546			IMP-1	NP_006537	Homo sapiens IGF-II mRNA-binding protein 1 (IMP-1), mRNA.
NM_004689			MTA1	NP_004680	Homo sapiens metastasis associated 1 (MTA1), mRNA.
NM_020143			LOC56902	NP_064528	Homo sapiens putative 28 kDa protein (LOC56902), mRNA.
NM_003096			SNRPG	NP_003087	Homo sapiens small nuclear ribonucleoprotein polypeptide G (SNRPG), mRNA.
NM_000947			PRIM2A	NP_000938	Homo sapiens primase, polypeptide 2A, 58kDa (PRIM2A), mRNA.
NM_006312			NCOR2	NP_006303	Homo sapiens nuclear receptor co-repressor 2 (NCOR2), mRNA.

Figure 12

Nucleotide				Protein Product			
GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	GeneBank Accession Number or Manufacturer Sequence Reference	Description				
NM_006312	NCOR2	NP_006303	Homo sapiens nuclear receptor co-repressor 2 (NCOR2), mRNA.				
NM_006546	IMP-1	NP_006537	Homo sapiens IGF-1I mRNA-binding protein 1 (IMP-1), mRNA.				
NM_020143	LOC56902	NP_064528	Homo sapiens putative 28 kDa protein (LOC56902), mRNA.				
XM_047499	LOC149603	XP_047499	Homo sapiens hypothetical protein LOC149603 (LOC149603), mRNA.				
NM_018415	TRERF1	NP_060885	Homo sapiens transcriptional regulating factor 1 (TRERF1), transcript variant 3, mRNA.				
NM_000947	PRIM2A	NP_000938	Homo sapiens primase, polypeptide 2A, 58kDa (PRIM2A), mRNA.				
NM_013264	DDX25	NP_037396	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 25 (DDX25), mRNA.				
XM_095071	CAGE	XP_095071	Homo sapiens cancer-associated gene (CAGE), mRNA.				
U23028		AAC50646	Human eukaryotic initiation factor 2B-epsilon mRNA, partial cds.				
NM_015891	CDC40	NP_056975	Homo sapiens cell division cycle 40 homolog (yeast) (CDC40), mRNA.				
NM_015453	DKFZP434F091	NP_056268	Homo sapiens DKFZP434F091 protein (DKFZP434F091), mRNA.				
NM_030794	TDRD3	NP_110421	Homo sapiens tudor domain containing 3 (TDRD3), mRNA.				
AF049523	HYP A	AAC27501	Homo sapiens huntingtin-interacting protein HYP A/FBP11 (HYP A), partial cds.				
XM_088868	LOC163412	XP_088868	Homo sapiens LOC163412 (LOC163412), mRNA.				
NM_033030	BOLL	NP_149019	Homo sapiens bol, boule-like (Drosophila) (BOLL), transcript variant 2, mRNA.				
NM_022915	MRPL44	NP_075066	Homo sapiens mitochondrial ribosomal protein L44 (MRPL44), nuclear gene encoding mitochondrial protein mRNA.				
XM_087251	FLJ00166	XP_087251	Homo sapiens FLJ00166 protein (FLJ00166), mRNA.				
NM_003096	SNRPG	NP_003087	Homo sapiens small nuclear ribonucleoprotein polypeptide G (SNRPG), mRNA.				
NM_004937	CTNS	NP_004928	Homo sapiens cystinosis, nephropathic (CTNS), mRNA.				
NM_004689	MTA1	NP_004680	Homo sapiens metastasis associated 1 (MTA1), mRNA.				
AF026126	HNRPD	AAC23476	Homo sapiens heterogeneous nuclear ribonucleoprotein D (HNRPD) gene, complete cds.				
NM_002502	NFKB2	NP_002493	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) (NFKB2), mRNA.				
AF254411	SR-A1	AAF87552	Homo sapiens ser/larg-rich pre-mRNA splicing factor SR-A1 (SR-A1) gene, complete cds.				

Figure 13

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product		Description
		GeneBank Accession Number or Manufacturer Sequence Reference	GeneBank Accession Number or Manufacturer Sequence Reference	
XM_064989	LOC126205	XP_064989		Homo sapiens similar to PYRIN-containing APAF1-like protein 7; PYRIN-containing APAF1-like protein 7 mRNA; monarch 1 [Homo sapiens] (LOC126205), mRNA.
XM_070263	LOC137165	XP_070263		Homo sapiens similar to ribosomal protein L3; 60S ribosomal protein L3; HIV-1 TAR RNA-binding protein B (LOC137165), mRNA.
NM_006388	HTATIP	NP_006379		Homo sapiens HIV-1 Tat interactive protein, 60kDa (HTATIP), transcript variant 2, mRNA.
NM_006209	ENPP2	NP_006200		Homo sapiens ectonucleotide pyrophosphatase/phosphodiesterase 2 (autotaxin) (ENPP2), mRNA.
BC012090		AAH12090		Homo sapiens, Similar to heterogeneous nuclear ribonucleoprotein A3, clone MGC:20045 IMAGE:4661041 mRNA, complete cds.
NM_001019	RPS15A	NP_001010		Homo sapiens ribosomal protein S15a (RPS15A), mRNA.
NM_021133	RNASEL	NP_066956		Homo sapiens ribonuclease L (2',5'-oligoadenylate synthetase-dependent) (RNASEL), mRNA.
NM_013235	RNASE3L	NP_037367		Homo sapiens nuclear RNase III Drosha (RNASE3L), mRNA.
NM_015235	CSTF2T	NP_056050		Homo sapiens cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa, tau variant (CSTF2T), mRNA.
NM_004094	EIF2S1	NP_004085		Homo sapiens eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa (EIF2S1), mRNA.
NM_006163	NFE2	NP_006154		Homo sapiens nuclear factor (erythroid-derived 2), 45kDa (NFE2), mRNA.
NM_014003	DHX38	NP_054722		Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 38 (DHX38), mRNA.
NM_006789	APOBEC2	NP_006780		Homo sapiens apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 2 (APOBEC2), mRNA.
NM_014285	RRP4	NP_055100		Homo sapiens homolog of Yeast RRP4 (ribosomal RNA processing 4), 3'-5'-exoribonuclease (RRP4), mRNA.
NM_004175	SNRPD3	NP_004166		Homo sapiens small nuclear ribonucleoprotein D3 polypeptide 18kDa (SNRPD3), mRNA.
AL117473	DKFZp727A071	CAB55948		Homo sapiens mRNA; cDNA DKFZp727A071 (from clone DKFZp727A071); partial cds.
XM_085059	LOC145223	XP_085059		Homo sapiens similar to Splicing factor 3B subunit 4 (Spliceosome associated protein 49) (SAP 49) (SF3b5 (Pre-mRNA splicing factor SF3b 49 kDa subunit) (LOC145223), mRNA.

Figure 13

Nucleotide		Protein Product		Description	
GenBank	Accession	Gene Name or Manufacturer	GeneBank	Accession	
Number or Manufacturer	Sequence ID	Probe Name	Number or Manufacturer	Sequence Reference	
NM_020158		RRP46	NP_064543		Homo sapiens exosome component Rrp46 (RRP46), mRNA.
NM_016024		CGI-79	NP_057108		Homo sapiens CGI-79 protein (CGI-79), mRNA.
XM_065361		LOC129715	XP_065361		Homo sapiens similar to tudor protein (LOC129715), mRNA.
XM_068863		LOC134477	XP_068863		Homo sapiens similar to Hypothetical protein CGI-79 (LOC134477), mRNA.
NM_006527		SLBP	NP_006518		Homo sapiens stem-loop (histone) binding protein (SLBP), mRNA.
NM_024321		MGC10433	NP_077297		Homo sapiens hypothetical protein MGC10433 (MGC10433), mRNA.
NM_003075		SMARCC2	NP_003066		Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2 (SMARCC2), transcript variant 1, mRNA.
NM_016955		SLA/LP	NP_058651		Homo sapiens soluble liver antigen/liver pancreas antigen (SLA/LP), mRNA.
NM_002819		PTBP1	NP_002810		Homo sapiens polypyrimidine tract binding protein 1 (PTBP1), transcript variant 1, mRNA.
NM_001021		RPS17	NP_001012		Homo sapiens ribosomal protein S17 (RPS17), mRNA.
NM_002568		PABPC1	NP_002559		Homo sapiens poly(A) binding protein, cytoplasmic 1 (PABPC1), mRNA.
NM_014871		USP52	NP_055686		Homo sapiens ubiquitin specific protease 52 (USP52), mRNA.
NM_003076		SMARCD1	NP_003067		Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 (SMARCD1), transcript variant 1, mRNA.
NM_006547		IMP-3	NP_006538		Homo sapiens IGF-II mRNA-binding protein 3 (IMP-3), mRNA.
NM_025134		FLJ12178	NP_079410		Homo sapiens hypothetical protein FLJ12178 (FLJ12178), mRNA.
NM_002695		POLR2E	NP_002686		Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E, 25kDa (POLR2E), mRNA.
NM_005801		SUI1	NP_005792		Homo sapiens putative translation initiation factor (SUI1), mRNA.
NM_022830		FLJ22347	NP_073741		Homo sapiens hypothetical protein FLJ22347 (FLJ22347), mRNA.
NM_012245		SNW1	NP_036377		Homo sapiens SKI-interacting protein (SNW1), mRNA.
NM_005617		RPS14	NP_005608		Homo sapiens ribosomal protein S14 (RPS14), mRNA.
NM_021134		MRPL23	NP_066957		Homo sapiens mitochondrial ribosomal protein L23 (MRPL23), nuclear gene encoding mitochondrial protein mRNA.

Figure 13

XM_058421	LOC119832	XP_058421	Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC119832), mRNA.
NM_006013	RPL10	NP_006004	Homo sapiens ribosomal protein L10 (RPL10), mRNA.

Figure 13

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product	
		GeneBank Accession Number or Manufacturer Sequence Reference	Description
XM_085111	LOC145359		Homo sapiens similar to RIBONUCLEASE PANCREATIC PRECURSOR (RNASE 1) (RNASE A) (LOC145359), mRNA.
XM_047920	LOC92906		Homo sapiens similar to Unknown (protein for IMAGE:3587716) (LOC92906), mRNA.
XM_060628	LOC127722		Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (UNWINDING PROTEIN 1) (UP1) (LOC127722), mRNA.
XM_088640	LOC158685		Homo sapiens similar to RNA-binding region (RNP1, RRM) containing 2 (H. sapiens) (LOC158685), mRNA.
XM_017931	LOC158201		Homo sapiens similar to RNA binding motif protein, X chromosome (H. sapiens) (LOC158201), mRNA.
XM_062047	LOC120470		Homo sapiens similar to discs, large (Drosophila) homolog 2, chapsyn-110 (LOC120470), mRNA.
XM_068997	LOC134759		Homo sapiens similar to heterogeneous nuclear ribonucleoprotein L (LOC134759), mRNA.
XM_087697	LOC153522		Homo sapiens similar to splicing factor, arginine/serine-rich 11 (LOC153522), mRNA.
NM_003191	TARS		Homo sapiens threonyl-tRNA synthetase (TARS), mRNA.
XM_061850	LOC120083		Homo sapiens similar to 46kD arginine/serine-rich splicing factor (LOC120083), mRNA.
XM_093219	LOC170270		Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A3 HOMOLOG 2 (HNRNP A3(B)) (LOC170270), mRNA.
XM_068457	LOC133655		Homo sapiens similar to splicing coactivator subunit Srm300; RNA binding protein; AT-rich element binding factor; serine/arginine repetitive matrix 2 (LOC133655), mRNA.
NM_014892	KIAA1116		Homo sapiens KIAA1116 protein (KIAA1116), mRNA.
XM_058819	LOC124540		Homo sapiens similar to RNA-binding protein Musashi2-S (LOC124540), mRNA.
XM_058653	LOC122651		Homo sapiens similar to RIBONUCLEASE PANCREATIC (RNASE 1) (RNASE A) (LOC122651), mRNA.
XM_093626	LOC152108		Homo sapiens similar to ubiquitin A-52 residue ribosomal protein fusion product 1 (LOC152108), mRNA.
XM_061002	LOC118523		Homo sapiens similar to SON DNA binding protein; SON DNA-binding protein; SON DNA-binding protein, KIAA1019; NRE-binding protein (H. sapiens) (LOC118523), mRNA.
XM_060358	LOC127164		Homo sapiens similar to TAR DNA binding protein (LOC127164), mRNA.

Figure 14

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product			Description
		GeneBank Accession Number or Manufacturer Sequence Reference	GeneBank Accession Number or Manufacturer Sequence Reference	GeneBank Accession Number or Manufacturer Sequence Reference	
XM_063601	LOC123341				Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (UNWINDING PROTEIN 1) (UP1) (LOC123341), mRNA.
XM_059612	LOC132928				Homo sapiens similar to poly(A) binding protein, cytoplasmic 1; poly(A)-binding protein, cytoplasmic 1 (LOC132928), mRNA.
NM_021993	FUSIP1				Homo sapiens FUS interacting protein (serine-arginine rich) 1 (FUSIP1) transcript variant 2, mRNA.
XM_064113	LOC124380				Homo sapiens similar to Hrb27C-P1; RNA-binding protein 7 (LOC124380), mRNA.
XM_098297	LOC153028				Homo sapiens similar to RNA binding protein S1, serine-rich domain (H. sapiens) (LOC153028), mRNA.
XM_062934	LOC122056				Homo sapiens similar to ATP-DEPENDENT RNA HELICASE A (NUCLEAR DNA HELICASE II) (NDH II) (DEAD-BOX PROTEIN 9) (LOC122056), mRNA.
XM_053153	LOC149973				Homo sapiens similar to RNA binding motif protein, X chromosome (H. sapiens) (LOC149973), mRNA.
XM_070603	LOC137784				Homo sapiens similar to ANTIGEN GOR (LOC137784), mRNA.
XM_086419	LOC149092				Homo sapiens similar to pumilio homolog 1 (Drosophila) (H. sapiens) (LOC149092), mRNA.
XM_067918	LOC132583				Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC132583), mRNA.
NM_006450	SPF45				Homo sapiens splicing factor (45kD) (SPF45), mRNA.
NM_004940	DDX7				Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 7 (RNA helicase, 52kD) (DDX7), mRNA.
XM_086011	LOC148027				Homo sapiens similar to bruno-like 5, RNA binding protein (Drosophila); Bruno (Drosophila) -like 5, RNA binding protein CUG-BP and ETR-3 like factor 5; RNA-binding protein BRUNOL-5 (LOC148027), mRNA.
XM_073386	LOC119594				Homo sapiens similar to SPLICING FACTOR U2AF 65 KDA SUBUNIT (U2 AUXILIARY FACTOR 65 KDA SUBUNIT) (U2 SNRNP AUXILIARY FACTOR LARGE SUBUNIT) (U2AF65) (LOC119594), mRNA.
XM_067051	LOC140065				Homo sapiens similar to RNA binding motif protein, Y chromosome, family 1, member A1; RNA binding motif protein 1; RN binding motif protein 2 (LOC140065), mRNA.
NM_003138	SRPK2				Homo sapiens SFRS protein kinase 2 (SRPK2), mRNA.
XM_092386	LOC165115				Homo sapiens similar to KIAA1841 protein (LOC165115), mRNA.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product	
		GeneBank Accession Number or Manufacturer Sequence Reference	Description
XM_062047	LOC120470		Homo sapiens similar to discs, large (Drosophila) homolog 2; chapsyn-110 (LOC120470), mRNA.
XM_092031	LOC163147		Homo sapiens similar to splicing factor 3a, subunit 2, 66kD; Spliceosome protein SAP-62 (LOC163147), mRNA.
XM_067074	LOC140100		Homo sapiens similar to RNA binding motif protein, Y chromosome, family 1, member A1; RNA binding motif protein 1; RNABinding motif protein 2 (LOC140100), mRNA.
XM_060102	LOC126635		Homo sapiens similar to splicing factor, arginine/serine-rich 2, interacting protein; SC35-interacting protein 1 (LOC126635), mRNA.
XM_001524	LOC151173		Homo sapiens similar to TAR DNA binding protein (H. sapiens) (LOC151173), mRNA.
XM_086792	LOC150152		Homo sapiens similar to SPLICING FACTOR U2AF 35 KD SUBUNIT (U2 AUXILIARY FACTOR 35 KD SUBUNIT) (U2 SNRNP AUXILIARY FACTOR SMALL SUBUNIT) (LOC150152), mRNA.
XM_070605	LOC137786		Homo sapiens similar to ANTIGEN GOR (LOC137786), mRNA.
NM_006842	SF3B2		Homo sapiens splicing factor 3b, subunit 2, 145kD (SF3B2), mRNA.
XM_095899	LOC169732		Homo sapiens similar to EXOSOME COMPLEX EXONUCLEASE RRP4 (RIBOSOMAL RNA PROCESSING PROTEIN 4) (LOC169732), mRNA.
XM_066446	LOC139051		Homo sapiens similar to hypothetical protein (LOC139051), mRNA.
XM_089765	LOC143344		Homo sapiens similar to poly(A) binding protein (LOC143344), mRNA.
XM_089587	LOC159428		Homo sapiens similar to EUKARYOTIC TRANSLATION INITIATION FACTOR 4B (EIF-4B) (LOC159428), mRNA.
XM_092043	LOC163160		Homo sapiens similar to polypyrimidine tract binding protein, isoform b; heterogeneous nuclear ribonucleoprotein polypeptide 1; RNA binding protein (LOC163160), mRNA.
XM_091270	LOC161983		Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC161983), mRNA.
XM_067072	LOC140098		Homo sapiens similar to RBM1 (LOC140098), mRNA.
XM_056568	LOC147774		Homo sapiens similar to KH-type splicing regulatory protein (FUSE binding protein 2) (H. sapiens) (LOC147774), mRNA.

Nucleotide		Protein Product		Description
GenBank Accession Number or Manufacturer	Sequence ID	Gene Name or Manufacturer	Gene Name or Manufacturer	
XM_091235	XM_091235	LOC161931	LOC161931	Homo sapiens similar to hypothetical protein (LOC161931), mRNA.
XM_058943	XM_058943	LOC125925	LOC125925	Homo sapiens similar to R32611_1 (LOC125925), mRNA.
XM_058876	XM_058876	LOC124944	LOC124944	Homo sapiens similar to putative (H. sapiens) (LOC124944), mRNA.
XM_088975	XM_088975	LOC148683	LOC148683	Homo sapiens similar to pumilio homolog 1 (Drosophila); pumilio (Drosophila) homolog 1 (LOC148683), mRNA.
XM_092221	XM_092221	LOC164891	LOC164891	Homo sapiens similar to mRNA for ribosomal protein S9 (LOC164891), mRNA.
XM_095591	XM_095591	LOC169242	LOC169242	Homo sapiens similar to putative (LOC169242), mRNA.
XM_093336	XM_093336	LOC165631	LOC165631	Homo sapiens similar to KIAA1268 protein (LOC165631), mRNA.
XM_065002	XM_065002	LOC126246	LOC126246	Homo sapiens similar to Similar to splicing factor proline/glutamine rich (polypyrimidine tract-binding protein-associated) (H. sapiens) (LOC126246), mRNA.
XM_067452	XM_067452	LOC131596	LOC131596	Homo sapiens similar to splicing factor 3a, subunit 2, 66kD; Spliceosome protein SAP-62 (LOC131596), mRNA.
XM_062601	XM_062601	LOC121365	LOC121365	Homo sapiens similar to RBM1 (LOC121365), mRNA.
XM_068248	XM_068248	LOC133225	LOC133225	Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (H. sapiens) (LOC133225), mRNA.
XM_068022	XM_068022	LOC132772	LOC132772	Homo sapiens similar to split ends; polycyphalon; yippee interacting protein 1 (LOC132772), mRNA.
XM_066901	XM_066901	LOC139801	LOC139801	Homo sapiens similar to splicing factor, arginine/serine-rich 4 (SRp75); similar to splicing factor, arginine/serine-rich 4 (SFRS4) (H. sapiens) (LOC139801), mRNA.
XM_067087	XM_067087	LOC140123	LOC140123	Homo sapiens similar to RNA binding protein (LOC140123), mRNA.
XM_067844	XM_067844	LOC132430	LOC132430	Homo sapiens similar to poly(A)-binding protein, cytoplasmic 4 (inducible form); inducible poly(A)-binding protein (LOC132430), mRNA.
XM_070624	XM_070624	LOC137819	LOC137819	Homo sapiens similar to Rbm (H. sapiens) (LOC137819), mRNA.
BC005054	BC005054	AAH05054	AAH05054	Homo sapiens, clone IMAGE:2822202, mRNA, partial cds.
NM_031994	NM_031994	RNF17	NP_114383	Homo sapiens ring finger protein 17 (RNF17), transcript variant short, mRNA.

Nucleotide GenBank Accession			Protein Product	
Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Manufacturer Sequence Reference	GeneBank Accession Number or Manufacturer Sequence Reference	Description
HSU87589			AAB63112	Human endogenous retrovirus clone K1.1 polymerase mRNA, partial cds.
XM_085111	LOC145359		XP_085111	Homo sapiens similar to Ribonuclease pancreatic precursor (RNase A) (LOC145359), mRNA.
NM_024045	DDX50		NP_076950	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 50 (DDX50), mRNA.
NM_001021	RPS17		NP_001012	Homo sapiens ribosomal protein S17 (RPS17), mRNA.
AC004957				Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
NM_004792	PPIG		NP_004783	Homo sapiens peptidyl-prolyl isomerase G (cyclophilin G) (PPIG), mRNA.
NM_001011	RPS7		NP_001002	Homo sapiens ribosomal protein S7 (RPS7), mRNA.
XM_047920	LOC92906		XP_047920	Homo sapiens similar to Unknown (protein for IMAGE:3587716) (LOC92906), mRNA.
AI088192				oz97g12.x1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1683334 3' similar to TR:Q38800 Q388 COL-O PUTATIVE RNA HELICASE A. ; mRNA sequence.
NM_005058	RBMV1A1		NP_005049	Homo sapiens RNA binding motif protein, Y-linked, family 1, member A1 (RBMV1A1), mRNA.
XM_060628	LOC127722		XP_060628	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-destabilizing protein) (Single-strand binding protein) (hnRNP core protein A1) (HDP-1) (Topoisomerase-inhibitor suppressed) (LOC127722), mRNA.
NM_020967	NCOA5		NP_066018	Homo sapiens nuclear receptor coactivator 5 (NCOA5), mRNA.
NM_006275	SFRS6		NP_006266	Homo sapiens splicing factor, arginine/serine-rich 6 (SFRS6), mRNA.
XM_088640	LOC158685		XP_088640	Homo sapiens similar to bA353C18.3.2 (splicing factor CC1.3, isoform 2 (CC1.4)) (LOC158685), mRNA.
XM_017931	LOC158201		XP_017931	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein G (hnRNP G) (Glycoprotein P43) (LOC158201), mRNA.
NM_005016	PCBP2		NP_005007	Homo sapiens poly(rC) binding protein 2 (PCBP2), transcript variant 1, mRNA.
NM_006713	PC4		NP_006704	Homo sapiens activated RNA polymerase II transcription cofactor 4 (PC4), mRNA.
NM_018427	RRN3		NP_060897	Homo sapiens RNA polymerase I transcription factor RRN3 (RRN3), mRNA.
NM_004960	FUS		NP_004951	Homo sapiens fusion (involved in t(12;16) in malignant liposarcoma) (FUS), mRNA.
AF267533			AAF78955	Homo sapiens CUG-binding protein LYLQ isoform mRNA, complete cds.
XM_062047	LOC120470		XP_062047	Homo sapiens similar to discs, large (Drosophila) homolog 2; chapsyn-110 (LOC120470), mRNA.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product		Description
		GeneBank Accession Number or Manufacturer Sequence Reference	Manufacturer	
NM_003797	EED	NP_003788		Homo sapiens embryonic ectoderm development (EED), transcript variant 1, mRNA.
NM_001025	RPS23	NP_001016		Homo sapiens ribosomal protein S23 (RPS23), mRNA.
NM_005156	ROD1	NP_005147		Homo sapiens ROD1 regulator of differentiation 1 (S. pombe) (ROD1), mRNA.
BC001050	NFATC3	AAH01050		Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3, transcript variant 1, mRNA (cDNA clone MGC:1495 IMAGE:3505967), complete cds.
NM_000281	PCBD	NP_000272		Homo sapiens 6-pyruvoyl-tetrahydropterin synthase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) (PCBD), mRNA.
XM_068997	LOC134759	XP_068997		Homo sapiens similar to heterogeneous nuclear ribonucleoprotein L (LOC134759), mRNA.
NM_005887	DLEU1	NP_005878		Homo sapiens deleted in lymphocytic leukemia, 1 (DLEU1), mRNA.
AF435977	SON	AAL30810		Homo sapiens negative regulatory element-binding protein (SON) mRNA, complete cds, alternatively spliced.
NM_001002	RPLP0	NP_000993		Homo sapiens ribosomal protein, large, P0 (RPLP0), transcript variant 1, mRNA.
NM_000989	RPL30	NP_000980		Homo sapiens ribosomal protein L30 (RPL30), mRNA.
XM_087697	LOC153522	XP_087697		Homo sapiens similar to splicing factor, arginine/serine-rich 11 (LOC153522), mRNA.
AC004957				Homo sapiens PAC clone RP5-1083O17 from 7, complete sequence.
NM_004902	RNPC2	NP_004893		Homo sapiens RNA-binding region (RNP1, RRM) containing 2 (RNPC2), transcript variant 2, mRNA.
NM_003191	TARS	NP_003182		Homo sapiens threonyl-tRNA synthetase (TARS), mRNA.
NM_021177	LSM2	NP_067000		Homo sapiens LSM2 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM2), mRNA.
NM_002948	RPL15	NP_002939		Homo sapiens ribosomal protein L15 (RPL15), mRNA.
XM_061850	LOC120083	XP_061850		Homo sapiens similar to 46kD arginine/serine-rich splicing factor [Homo sapiens] (LOC120083), mRNA.
NM_004705	PRKRIR	NP_004696		Homo sapiens protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, repressor of (P58 repressor) (PRKRIR), mRNA.
XM_093219	LOC170270	XP_093219		Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A3 homolog 2 (hnRNP A3(B)) (LOC170270), mRNA.
HSPOP1	pop1	CAA67684		H. sapiens mRNA for Pop1 protein.
NM_001429	EP300	NP_001420		Homo sapiens E1A binding protein p300 (EP300), mRNA.

Figure 14

Nucleotide GenBank Accession		Protein Product		Gene Name or Manufacturer Probe Name		Description	
Number or Manufacturer Sequence ID	Accession Number or Manufacturer Sequence	Gene Name or Manufacturer Probe Name	Accession Number or Manufacturer Sequence	Gene Name or Manufacturer Probe Name	Accession Number or Manufacturer Sequence	Gene Name or Manufacturer Probe Name	Accession Number or Manufacturer Sequence
NM_014168	NP_054887	HSPC133	NP_054887	HSPC133	NP_054887	HSPC133	NP_054887
NM_001968	NP_001959	EIF4E	NP_001959	EIF4E	NP_001959	EIF4E	NP_001959
NM_005968	NP_005959	HNRPM	NP_005959	HNRPM	NP_005959	HNRPM	NP_005959
NM_006372	NP_006363	SYNCRIP	NP_006363	SYNCRIP	NP_006363	SYNCRIP	NP_006363
NM_002136	NP_002127	HNRPA1	NP_002127	HNRPA1	NP_002127	HNRPA1	NP_002127
NM_006638	NP_006629	RPP40	NP_006629	RPP40	NP_006629	RPP40	NP_006629
NM_004539	NP_004530	NARS	NP_004530	NARS	NP_004530	NARS	NP_004530
AC004957							
HS164F3	CAB55879	dJ164F3.1	CAB55879	dJ164F3.1	CAB55879	dJ164F3.1	CAB55879
BC016283	AAH16283	ABCE1	AAH16283	ABCE1	AAH16283	ABCE1	AAH16283
NM_006392	NP_006383	NOL5A	NP_006383	NOL5A	NP_006383	NOL5A	NP_006383
BC002395	AAH02395	SF3A3	AAH02395	SF3A3	AAH02395	SF3A3	AAH02395
NM_003769	NP_003760	SFRS9	NP_003760	SFRS9	NP_003760	SFRS9	NP_003760
NM_006743	NP_006734	RBM3	NP_006734	RBM3	NP_006734	RBM3	NP_006734
AF165518	AAF86648	MAGOH	AAF86648	MAGOH	AAF86648	MAGOH	AAF86648
NM_001402	NP_001393	EEF1A1	NP_001393	EEF1A1	NP_001393	EEF1A1	NP_001393
NM_030594	NP_085097	CPEB1	NP_085097	CPEB1	NP_085097	CPEB1	NP_085097
NM_001024	NP_001015	RPS21	NP_001015	RPS21	NP_001015	RPS21	NP_001015

Figure 14

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Proba Name	Protein Product	
		GeneBank Accession Number or Manufacturer Sequence Reference	Description
NM_003488	AKAP1	NP_003479	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA.
AF038362	TAF-172	AAC04573	Homo sapiens TBP-associated factor 172 (TAF-172) mRNA, complete cds.
NM_004501	HNRPU	NP_004492	Homo sapiens heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A) (HNRPU), transcript variant 2, mRNA.
NM_004396	DDX5	NP_004387	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 5 (DDX5), mRNA.
NM_000968	RPL4	NP_000959	Homo sapiens ribosomal protein L4 (RPL4), mRNA.
NM_001028	RPS25	NP_001019	Homo sapiens ribosomal protein S25 (RPS25), mRNA.
NM_007367	RALY	NP_031393	Homo sapiens RNA binding protein (autoantigenic, hnRNP-associated with lethal yellow) (RALY), transcript variant 2, mRNA.
NM_004689	MTA1	NP_004680	Homo sapiens metastasis associated 1 (MTA1), mRNA.
XM_068457	LOC133655	XP_068457	Homo sapiens similar to splicing coactivator subunit SRm300; RNA binding protein; AT-rich element binding factor; serine/arginine repetitive matrix 2 (LOC133655), mRNA.
NM_003754	EIF3S5	NP_003745	Homo sapiens eukaryotic translation initiation factor 3, subunit 5 epsilon, 47kDa (EIF3S5), mRNA.
AC004957			Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
AC004957			Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
NM_006711	RNPS1	NP_006702	Homo sapiens RNA binding protein S1, serine-rich domain (RNPS1), transcript variant 1, mRNA.
NM_016480	PAIP2	NP_057564	Homo sapiens poly(A) binding protein interacting protein 2 (PAIP2), mRNA.
NM_001014	RPS10	NP_001005	Homo sapiens ribosomal protein S10 (RPS10), mRNA.
AF070668		AAD20974	Homo sapiens 40S ribosomal protein S27 isoform mRNA, complete cds.
NM_006938	SNRPD1	NP_008869	Homo sapiens small nuclear ribonucleoprotein D1 polypeptide 16kDa (SNRPD1), mRNA.
NM_014892	RBM16	NP_055707	Homo sapiens RNA binding motif protein 16 (RBM16), mRNA.
NM_018353	C14orf106	NP_060823	Homo sapiens chromosome 14 open reading frame 106 (C14orf106), mRNA.
NM_006196	PCBP1	NP_006187	Homo sapiens poly(rC) binding protein 1 (PCBP1), mRNA.
XM_058819	MSI2	XP_058819	Homo sapiens musashi homolog 2 (Drosophila) (MSI2), mRNA.

Nucleotide GenBank Accession			Protein Product		
Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	GenBank Accession Number or Manufacturer Sequence Reference	Description		
NM_003133	SRP9	NP_003124	Homo sapiens signal recognition particle 9kDa (SRP9), mRNA		
NM_001016	RPS12	NP_001007	Homo sapiens ribosomal protein S12 (RPS12), mRNA		
NM_004516	ILF3	NP_004507	Homo sapiens interleukin enhancer binding factor 3, 90kDa (ILF3), transcript variant 2, mRNA		
XM_058653	LOC122651	XP_058653	Homo sapiens LOC122651 (LOC122651), mRNA		
NM_003750	EIF3S10	NP_003741	Homo sapiens eukaryotic translation initiation factor 3, subunit 10 theta, 150/170kDa (EIF3S10), mRNA		
AK054960			Homo sapiens cDNA FLJ30398 fis, clone BRACE2008402, highly similar to Homo sapiens steroid receptor RNA activator isoform 3 mRNA		
NM_017697	FLJ20171	NP_060167	Homo sapiens hypothetical protein FLJ20171 (FLJ20171), mRNA		
NM_000985	RPL17	NP_000976	Homo sapiens ribosomal protein L17 (RPL17), mRNA		
HSM801037			Homo sapiens mRNA; cDNA DKFZp434L1935 (from clone DKFZp434L1935)		
NM_014060	MCTS1	NP_054779	Homo sapiens malignant T cell amplified sequence 1 (MCTS1), mRNA		
NM_014463	LSM3	NP_055278	Homo sapiens LSM3 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM3), mRNA		
AF294007		AAG31577	Homo sapiens haplotype 1 eosinophil-derived neurotoxin gene, complete cds		
NM_003092	SNRPB2	NP_003083	Homo sapiens small nuclear ribonucleoprotein polypeptide B' (SNRPB2), transcript variant 1, mRNA		
NM_001418	EIF4G2	NP_001409	Homo sapiens eukaryotic translation initiation factor 4 gamma, 2 (EIF4G2), mRNA		
NM_006802	SF3A3	NP_006793	Homo sapiens splicing factor 3a, subunit 3, 60kDa (SF3A3), mRNA		
XM_093626	LOC152108	XP_093626	Homo sapiens similar to ubiquitin A-52 residue ribosomal protein fusion product 1 (LOC152108), mRNA		
BC000138	HNRPB	AAH00138	Homo sapiens heterogeneous nuclear ribonucleoprotein M, transcript variant 1, mRNA (cDNA clone MGC:5136 IMAGE:2900532), complete cds		
NM_007040	HNRPUL1	NP_008971	Homo sapiens heterogeneous nuclear ribonucleoprotein U-like 1 (HNRPUL1), transcript variant 1, mRNA		
NM_003908	EIF2S2	NP_003899	Homo sapiens eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa (EIF2S2), mRNA		
NM_000994	RPL32	NP_000985	Homo sapiens ribosomal protein L32 (RPL32), mRNA		
NM_003757	EIF3S2	NP_003748	Homo sapiens eukaryotic translation initiation factor 3, subunit 2 beta, 36kDa (EIF3S2), mRNA		
NM_080632	UPF3B	NP_542199	Homo sapiens UPF3 regulator of nonsense transcripts homolog B (yeast) (UPF3B), transcript variant 1, mRNA		

Figure 14

Nucleotide GenBank Accession Number or Manufacturer Sequence ID		Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description	
Gene Name or Manufacturer Probe Name					
AB002310	KIAA0312	BAA20771	Homo sapiens mRNA for KIAA0312 gene, partial cds.		
NM_001005	RPS3	NP_000996	Homo sapiens ribosomal protein S3 (RPS3), mRNA.		
NM_016638	ARL6IP4	NP_057722	Homo sapiens ADP-ribosylation-like factor 6 interacting protein 4 (ARL6IP4), mRNA.		
NM_018387	STRBP	NP_060857	Homo sapiens spermatid perinuclear RNA binding protein (STRBP), mRNA.		
NM_001212	C1QBP	NP_001203	Homo sapiens complement component 1, q subcomponent binding protein (C1QBP), nuclear gene encoding mitochondrial protein, mRNA.		
NM_004985	KRAS2	NP_004976	Homo sapiens v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog (KRAS2), transcript variant b, mRNA.		
XM_061002	LOC118523	XP_061002	Homo sapiens LOC118523 (LOC118523), mRNA.		
NM_003799	RNMT	NP_003790	Homo sapiens RNA (guanine-7-) methyltransferase (RNMT), mRNA.		
NM_021190	PTBP2	NP_067013	Homo sapiens polypyrimidine tract binding protein 2 (PTBP2), mRNA.		
NM_030980	FLJ12671	NP_112242	Homo sapiens hypothetical protein FLJ12671 (FLJ12671), mRNA.		
NM_000971	RPL7	NP_000962	Homo sapiens ribosomal protein L7 (RPL7), mRNA.		
NM_000995	RPL34	NP_000986	Homo sapiens ribosomal protein L34 (RPL34), transcript variant 1, mRNA.		
NM_007006	CPSF5	NP_008937	Homo sapiens cleavage and polyadenylation specific factor 5, 25 kDa (CPSF5), mRNA.		
NM_003429	ZNF85	NP_003420	Homo sapiens zinc finger protein 85 (HPF4, HTF1) (ZNF85), mRNA.		
NM_006112	PPIE	NP_006103	Homo sapiens peptidylprolyl isomerase E (cyclophilin E) (PPIE), transcript variant 1, mRNA.		
NM_014502	PRP19	NP_055317	Homo sapiens PRP19/PSO4 homolog (S. cerevisiae) (PRP19), mRNA.		
AC004858	WUGSC:H_DJ0687K01.2	AAF19255	Homo sapiens PAC clone RP4-687K1 from 14, complete sequence.		
XM_060358	LOC127164	XP_060358	Homo sapiens similar to TAR DNA binding protein (LOC127164), mRNA.		
NM_003819	PABPC4	NP_003810	Homo sapiens poly(A) binding protein, cytoplasmic 4 (inducible form) (PABPC4), mRNA.		
AB014564	KIAA0664	BAA31639	Homo sapiens mRNA for KIAA0664 protein, partial cds.		
NM_022170	WBSCR1	NP_071496	Homo sapiens Williams-Beuren syndrome chromosome region 1 (WBSCR1), transcript variant 1, mRNA.		
NM_005087	FXR1	NP_005078	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA.		
NM_003680	YARS	NP_003671	Homo sapiens tyrosyl-tRNA synthetase (YARS), mRNA.		

Nucleotide		Protein Product		Description
GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	GeneBank Accession Number or Manufacturer Sequence Reference	GeneBank Accession Number or Manufacturer Sequence Reference	
NM_004500	HNRPC	NP_004491		Homo sapiens heterogeneous nuclear ribonucleoprotein C (C1/C2) (HNRPC), transcript variant 2, mRNA.
AC004858	WUGSC:H_DJ0687K01.2	AAF19255		Homo sapiens PAC clone RP4-687K1 from 14, complete sequence.
NM_002887	RARS	NP_002878		Homo sapiens arginyl-tRNA synthetase (RARS), mRNA.
NM_020414	DDX24	NP_065147		Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 24 (DDX24), mRNA.
NM_014871	USP52	NP_055686		Homo sapiens ubiquitin specific protease 52 (USP52), mRNA.
XM_063601	LOC123341	XP_063601		Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-destabilizing protein) (Single-strand binding protein) (hnRNP core protein A1) (HDP) (LOC123341), mRNA.
NM_000988	RPL27	NP_000979		Homo sapiens ribosomal protein L27 (RPL27), mRNA.
AF266720S4	RBMX	AAK58567		Homo sapiens RBMX (RBMX) gene, exons 6 through 9 and complete cds.
NM_001967	EIF4A2	NP_001958		Homo sapiens eukaryotic translation initiation factor 4A, isoform 2 (EIF4A2), mRNA.
XM_059612	LOC132928	XP_059612		Homo sapiens similar to polyA binding protein (AA 1-633) (LOC132928), mRNA.
NM_018959	DAZAP1	NP_061832		Homo sapiens DAZ associated protein 1 (DAZAP1), transcript variant 2, mRNA.
NM_004294	MTRF1	NP_004285		Homo sapiens mitochondrial translational release factor 1 (MTRF1), nuclear gene encoding mitochondrial protein, mRNA.
NM_001031	RPS28	NP_001022		Homo sapiens ribosomal protein S28 (RPS28), mRNA.
AB046830	KIAA1610	BAB13436		Homo sapiens mRNA for KIAA1610 protein, partial cds.
NM_007358	M96	NP_031384		Homo sapiens likely ortholog of mouse metal response element binding transcription factor 2 (M96), mRNA.
AF083441		AAD52028		Homo sapiens SU11 isolog mRNA, complete cds.
NM_014393	STAU2	NP_055208		Homo sapiens stauflin, RNA binding protein, homolog 2 (Drosophila) (STAU2), mRNA.
NM_017544	NRF	NP_060014		Homo sapiens NF-kappa B-repressing factor (NRF), mRNA.
AF155096		AAD42862		Homo sapiens NY-REN-6 antigen mRNA, partial cds.
NM_015703	CGI-96	NP_056518		Homo sapiens CGI-96 protein (CGI-96), mRNA.
NM_021993	FUSIP2	NP_068833		Homo sapiens FUS interacting protein (serine-arginine rich) 2 (FUSIP2), mRNA.
NM_001970	EIF5A	NP_001961		Homo sapiens eukaryotic translation initiation factor 5A (EIF5A), mRNA.

Nucleotide		Protein Product	
GenBank Accession	Gene Name or	GeneBank	Description
Number or	Manufacturer	Accession	
Manufacturer	Sequence	Number or	
Sequence ID	Manufacturer	Sequence	
Sequence ID	Manufacturer	Sequence	
NM_012322	LSM5	NP_036454	Homo sapiens LSM5 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM5), mRNA
NM_003142	SSB	NP_003133	Homo sapiens Sjogren syndrome antigen B (autoantigen La) (SSB), mRNA
NM_003017	SFRS3	NP_003008	Homo sapiens splicing factor, arginine/serine-rich 3 (SFRS3), mRNA
AC004957			Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
NM_001019	RPS15A	NP_001010	Homo sapiens ribosomal protein S15a (RPS15A), mRNA
NM_005782	THOC4	NP_005773	Homo sapiens THO complex 4 (THOC4), mRNA
NM_006924	SFRS1	NP_008855	Homo sapiens splicing factor, arginine/serine-rich 1 (splicing factor 2, alternate splicing factor) (SFRS1), mRNA
NM_031369	HNRPD	NP_112737	Homo sapiens heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa) (HNRPD), transcript variant 2, mRNA
NM_020690	MASK	NP_065741	Homo sapiens multiple ankyrin repeats, single KH-domain (MASK) homolog (MASK), mRNA
NM_016047	P14	NP_057131	Homo sapiens pre-mRNA branch site protein p14 (P14), mRNA
NM_004953	EIF4G1	NP_004944	Homo sapiens eukaryotic translation initiation factor 4 gamma, 1 (EIF4G1), transcript variant 5, mRNA
NM_006625	FUSIP1	NP_006616	Homo sapiens FUS interacting protein (serine-arginine rich) 1 (FUSIP1), transcript variant 1, mRNA
NM_021104	RPL41	NP_066927	Homo sapiens ribosomal protein L41 (RPL41), mRNA
NM_001751	CARS	NP_001742	Homo sapiens cysteinyl-tRNA synthetase (CARS), transcript variant 2, mRNA
NM_001533	HNRPL	NP_001524	Homo sapiens heterogeneous nuclear ribonucleoprotein L (HNRPL), mRNA
NM_004397	DDX6	NP_004388	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 6 (DDX6), mRNA
NM_005762	TRIM28	NP_005753	Homo sapiens tripartite motif-containing 28 (TRIM28), mRNA
NM_003756	EIF3S3	NP_003747	Homo sapiens eukaryotic translation initiation factor 3, subunit 3 gamma, 40kDa (EIF3S3), mRNA
NM_022551	RPS18	NP_072045	Homo sapiens ribosomal protein S18 (RPS18), mRNA
NM_020365	EIF2B3	NP_065098	Homo sapiens eukaryotic translation initiation factor 2B, subunit 3 gamma, 58kDa (EIF2B3), mRNA
XM_047499	LOC149603	XP_047499	Homo sapiens hypothetical protein LOC149603 (LOC149603), mRNA
NM_006548	IMP-2	NP_006539	Homo sapiens IGF-II mRNA-binding protein 2 (IMP-2), mRNA
NM_000984	RPL23A	NP_000975	Homo sapiens ribosomal protein L23a (RPL23A), mRNA

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product	
		GeneBank Accession Number or Manufacturer Sequence Reference	Description
NM_001022	RPS19	NP_001013	Homo sapiens ribosomal protein S19 (RPS19), mRNA.
NM_005617	RPS14	NP_005608	Homo sapiens ribosomal protein S14 (RPS14), mRNA.
NM_003187	TAF9	NP_003178	Homo sapiens TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 32kDa (TAF9), transcript variant 1, mRNA.
NM_006386	DDX17	NP_006377	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 17 (DDX17), transcript variant 1, mRNA.
NM_000990	RPL27A	NP_000981	Homo sapiens ribosomal protein L27a (RPL27A), mRNA.
NM_005850	SF3B4	NP_005841	Homo sapiens splicing factor 3b, subunit 4, 49kDa (SF3B4), mRNA.
AC004957			Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
NM_003729	RTCD1	NP_003720	Homo sapiens RNA terminal phosphatase cyclase domain 1 (RTCD1), mRNA.
NM_006451	PAIP1	NP_006442	Homo sapiens poly(A) binding protein interacting protein 1 (PAIP1), transcript variant 1, mRNA.
NM_002137	HNRPA2B1	NP_002128	Homo sapiens heterogeneous nuclear ribonucleoprotein A2/B1 (HNRPA2B1), transcript variant A2, mRNA.
NM_001009	RPS5	NP_001000	Homo sapiens ribosomal protein S5 (RPS5), mRNA.
NM_005646	TARBP1	NP_005637	Homo sapiens TAR (HIV) RNA binding protein 1 (TARBP1), mRNA.
NM_015646	RAP1B	NP_056461	Homo sapiens RAP1B, member of RAS oncogene family (RAP1B), mRNA.
XM_064113	LOC124380	XP_064113	Homo sapiens LOC124380 (LOC124380), mRNA.
NM_004697	PRPF4	NP_004688	Homo sapiens PRP4 pre-mRNA processing factor 4 homolog (yeast) (PRPF4), mRNA.
AC004957			Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
NM_001358	DHX15	NP_001349	Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
NM_005520	HNRPH1	NP_005511	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 15 (DHX15), mRNA.
NM_003333	UBA52	NP_003324	Homo sapiens heterogeneous nuclear ribonucleoprotein H1 (H1) (HNRPH1), mRNA.
XM_098297	LOC153028	XP_098297	Homo sapiens ubiquitin A-52 residue ribosomal protein fusion product 1 (UBA52), mRNA.
NM_006559	KHDRBS1	NP_006550	Homo sapiens similar to RNA binding protein S1, serine-rich domain (H. sapiens) (LOC153028), mRNA.
BC000595	DDX17	AAH00595	Homo sapiens KH domain containing, RNA binding, signal transduction associated 1 (KHDRBS1), mRNA.
			Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 17, mRNA (cDNA clone MGC:3345982), complete cds.
NM_001006	RPS3A	NP_000997	Homo sapiens ribosomal protein S3A (RPS3A), mRNA.

Nucleotide		Protein Product		Description
GenBank Accession	Manufacturer	Gene Name or Manufacturer Probe Name	GeneBank Accession	
Number or Manufacturer Sequence ID	Number or Manufacturer Sequence	Reference	Reference	
NM_005870		SAP18	NP_005861	Homo sapiens sin3-associated polypeptide, 18kDa (SAP18), mRNA.
NM_014412		SIP	NP_055227	Homo sapiens Slah-interacting protein (SIP), mRNA.
NM_007104		RPL10A	NP_009035	Homo sapiens ribosomal protein L10a (RPL10A), mRNA.
NM_005121		THRAP1	NP_005112	Homo sapiens thyroid hormone receptor associated protein 1 (THRAP1), mRNA.
NM_080663		MGC16943	NP_542394	Homo sapiens similar to RIKEN cDNA 4933424N09 gene (MGC16943), mRNA.
NM_006074		TRIM22	NP_006065	Homo sapiens tripartite motif-containing 22 (TRIM22), mRNA.
NM_002950		RPN1	NP_002941	Homo sapiens ribophorin 1 (RPN1), mRNA.
XM_062934		LOC122056	XP_062934	Homo sapiens similar to ATP-dependent RNA helicase A (Nuclear DNA helicase II) (NDH II) (DEAD-box protein 9) (LOC122056), mRNA.
NM_033117		RBM18	NP_149108	Homo sapiens RNA binding motif protein 18 (RBM18), mRNA.
NM_005034		POLR2K	NP_005025	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide K, 7.0kDa (POLR2K), mRNA.
NM_006805		HNRPA0	NP_006796	Homo sapiens heterogeneous nuclear ribonucleoprotein A0 (HNRPA0), mRNA.
NM_002696		POLR2G	NP_002687	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide G (POLR2G), mRNA.
NM_002140		HNRPK	NP_002131	Homo sapiens heterogeneous nuclear ribonucleoprotein K (HNRPK), transcript variant 1, mRNA.
XM_053153		LOC149973	XP_053153	Homo sapiens similar to RNA binding motif protein, X chromosome (H. sapiens) (LOC149973), mRNA.
XM_070603		LOC137784	XP_070603	Homo sapiens similar to ANTIGEN GOR (LOC137784), mRNA.
NM_002938		RNF4	NP_002929	Homo sapiens ring finger protein 4 (RNF4), mRNA.
XM_086419		LOC149092	XP_086419	Homo sapiens similar to pumilio homolog 1 (Drosophila) (H. sapiens) (LOC149092), mRNA.
AC004957				Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.
NM_002520		NPM1	NP_002511	Homo sapiens nucleophosmin (nucleolar phosphoprotein B23, numatrin) (NPM1), mRNA.
NM_005437		NCOA4	NP_005428	Homo sapiens nucleophosmin (nucleolar phosphoprotein B23, numatrin) (NPM1), mRNA.
NM_001000		RPL39	NP_000991	Homo sapiens nuclear receptor coactivator 4 (NCOA4), mRNA.
NM_000969		RPL5	NP_000960	Homo sapiens ribosomal protein L39 (RPL39), mRNA.
NM_000973		RPL8	NP_000964	Homo sapiens ribosomal protein L5 (RPL5), mRNA.
NM_003651		CSDA	NP_003642	Homo sapiens ribosomal protein L8 (RPL8), transcript variant 1, mRNA.
				Homo sapiens cold shock domain protein A (CSDA), mRNA.

Figure 14

Nucleotide GenBank Accession Number or Manufacturer Sequence ID			Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description
Manufacturer	Gene Name or Manufacturer Probe Name				
XM_067918	LOC132583	XP_067918	Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC132583), mRNA.		
NM_006450	SPF45	NP_006441	Homo sapiens splicing factor (45kD) (SPF45), mRNA.		
NM_014912	CPEB3	NP_055727	Homo sapiens cytoplasmic polyadenylation element binding protein 3 (CPEB3), mRNA.		
NM_001326	CSTF3	NP_001317	Homo sapiens cleavage stimulation factor, 3' pre-RNA, subunit 3, 77kDa (CSTF3), mRNA.		
NM_004940	DDX7	NP_004931	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 7 (RNA helicase, 52kDa) (DDX7), mRNA.		
NM_005021	ENPP3	NP_005012	Homo sapiens ectonucleotide pyrophosphatase/phosphodiesterase 3 (ENPP3), mRNA.		
NM_005047	RBM12	NP_006038	Homo sapiens RNA binding motif protein 12 (RBM12), transcript variant 1, mRNA.		
NM_014676	PUM1	NP_055491	Homo sapiens pumilio homolog 1 (Drosophila) (PUM1), mRNA.		
NM_002786	PSMA1	NP_002777	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 1 (PSMA1), transcript variant 2, mRNA.		
HUMNUCTIAR					
XM_086011	LOC148027	XP_086011	Homo sapiens nucleolysin TIAR mRNA, complete cds. Homo sapiens similar to bruno-like 5, RNA binding protein (Drosophila); Bruno (Drosophila) -like 5, RNA binding protein; CUG-BP and ETR-3 like factor 5; RNA-binding protein BRUNOL-5 (LOC148027), mRNA.		
NM_000967	RPL3	NP_000958	Homo sapiens ribosomal protein L3 (RPL3), mRNA.		
NM_014071	NCOA6	NP_054790	Homo sapiens nuclear receptor coactivator 6 (NCOA6), mRNA.		
XM_073386	LOC119594	XP_073386	Homo sapiens similar to SPLICING FACTOR U2AF 65 KDA SUBUNIT (U2 AUXILIARY FACTOR 65 KDA SUBUNIT) (U2 SNRNP AUXILIARY FACTOR LARGE SUBUNIT) (U2AF65) (LOC119594), mRNA.		
NM_000982	RPL21	NP_000973	Homo sapiens ribosomal protein L21 (RPL21), mRNA.		
AF062105	IGH	AAC18141	Homo sapiens clone 21u-19 immunoglobulin heavy chain variable region (IGH) mRNA, partial cds.		
NM_006414	RPP38	NP_006405	Homo sapiens ribonuclease P/MRP 38kDa subunit (RPP38), transcript variant 2, mRNA.		
NM_004599	SREBF2	NP_004590	Homo sapiens sterol regulatory element binding transcription factor 2 (SREBF2), mRNA.		
NM_007273	REA	NP_009204	Homo sapiens repressor of estrogen receptor activity (REA), mRNA.		
NM_002453	MTIF2	NP_002444	Homo sapiens mitochondrial translational initiation factor 2 (MTIF2), nuclear gene encoding mitochondrial protein, mRNA.		

Figure 14

Nucleotide		Protein Product		Gene Name or Manufacturer Probe Name	Description
GenBank Accession Number or Manufacturer Sequence ID	Manufacturer Sequence	GeneBank Accession Number or Manufacturer Sequence	Reference		
AF380184	SON	AAL34502	Homo sapiens SON DNA binding protein isoform F (SON) mRNA, complete cds, alternatively spliced.		
HUMRNAHELA	DDX9	AAB48855	Human RNA helicase A mRNA, complete cds.		
NM_006929	SKIV2L	NP_008860	Homo sapiens superkiller viralicidic activity 2-like (S. cerevisiae) (SKIV2L), mRNA.		
AK001652		BAA91812	Homo sapiens cDNA FLJ10790 fis, clone NT2RP4000518, weakly similar to ATP-DEPENDENT RNA HELICASE ROK1.		
AF037448	GRY-RBP	AAC12926	Homo sapiens RRM RNA binding protein Gry-rbp (GRY-RBP) mRNA, complete cds.		
NM_000977	RPL13	NP_000968	Homo sapiens ribosomal protein L13 (RPL13), transcript variant 1, mRNA.		
NM_016024	CGI-79	NP_057108	Homo sapiens CGI-79 protein (CGI-79), mRNA.		
AB044971	nopp34	BAB41210	Homo sapiens mRNA for nucleolar phosphoprotein Nopp34, complete cds.		
NM_000996	RPL35A	NP_000987	Homo sapiens ribosomal protein L35a (RPL35A), mRNA.		
NM_031277	RNF17	NP_112567	Homo sapiens ring finger protein 17 (RNF17), transcript variant long, mRNA.		
XM_067051	LOC140065	XP_067051	Homo sapiens similar to RNA binding motif protein, Y chromosome, family 1 member A1 (RNA-binding motif protein 1) (LOC140065), mRNA.		
NM_006276	SFRS7	NP_006267	Homo sapiens splicing factor, arginine/serine-rich 7, 35kDa (SFRS7), mRNA.		
NM_005008	NHP2L1	NP_004999	Homo sapiens NHP2 non-histone chromosome protein 2-like 1 (S. cerevisiae) (NHP2L1), mRNA.		
NM_003138	SRPK2	NP_003129	Homo sapiens SFRS protein kinase 2 (SRPK2), mRNA.		
XM_092386	LOC165115	XP_092386	Homo sapiens similar to KIAA1841 protein (LOC165115), mRNA.		
XM_062047	LOC120470	XP_062047	Homo sapiens similar to discs, large (Drosophila) homolog 2; chapsyn-110 (LOC120470), mRNA.		
NM_000991	RPL28	NP_000982	Homo sapiens ribosomal protein L28 (RPL28), mRNA.		
NM_001537	HSBP1	NP_001528	Homo sapiens heat shock factor binding protein 1 (HSBP1), mRNA.		
AB025254	BRD8	BAA76379	Homo sapiens mRNA for tudor repeat associator with PCTAIRE 2, partial cds.		
NM_006696	LOC81691	NP_006687	Homo sapiens bromodomain containing 8 (BRD8), transcript variant 1, mRNA.		
NM_030941	MYEF2	NP_112203	Homo sapiens exonuclease NEF-sp (LOC81691), mRNA.		
NM_016132	BAT1	NP_057216	Homo sapiens myelin expression factor 2 (MYEF2), mRNA.		
NM_004640		NP_004631	Homo sapiens HLA-B associated transcript 1 (BAT1), transcript variant 1, mRNA.		

Figure 14

Nucleotide		Protein Product		Description	
GenBank Accession	Manufacturer	Gene Name or Manufacturer Probe Name	GeneBank Accession Number or Manufacturer Sequence Reference		
NM_012345		NUFIP1	NP_036477	Homo sapiens nuclear fragile X mental retardation protein interacting protein 1 (NUFIP1), mRNA.	
XM_092031		LOC163147	XP_092031	Homo sapiens similar to Splicing factor 3A subunit 2 (Spliceosome associated protein 62) (SAP 62) (SF3a66) (LOC163147), mRNA.	
XM_067074		LOC140100	XP_067074	Homo sapiens similar to RBM1 (LOC140100), mRNA.	
NM_002047		GARS	NP_002038	Homo sapiens glycyl-tRNA synthetase (GARS), mRNA.	
NM_001017		RPS13	NP_001008	Homo sapiens ribosomal protein S13 (RPS13), mRNA.	
NM_004506		HSF2	NP_004497	Homo sapiens heat shock transcription factor 2 (HSF2), mRNA.	
NM_012426		SF3B3	NP_036558	Homo sapiens splicing factor 3b, subunit 3, 130kDa (SF3B3), mRNA.	
NM_019038		TDRD4	NP_061911	Homo sapiens tudor domain containing 4 (TDRD4), mRNA.	
AC022517			AAT31271	Homo sapiens chromosome 19, BC335474 (CIT-HSPC_482H14), complete sequence.	
NM_001111		ADAR	NP_001102	Homo sapiens adenosine deaminase, RNA-specific (ADAR), transcript variant ADAR-a, mRNA.	
XM_060102		LOC126635	XP_060102	Homo sapiens LOC126635 (LOC126635), mRNA.	
NM_017803		FLJ20399	NP_060273	Homo sapiens hypothetical protein FLJ20399 (FLJ20399), mRNA.	
XM_001524		LOC151173	XP_001524	Homo sapiens similar to TAR DNA-binding protein-43 (TDP-43) (LOC151173), mRNA.	
NM_004757		SCYE1	NP_004748	Homo sapiens small inducible cytokine subfamily E, member 1 (endothelial monocyte-activating) (SCYE1), mRNA.	
NM_014003		DHX38	NP_054722	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 38 (DHX38), mRNA.	
XM_086792		LOC150152	XP_086792	Homo sapiens similar to SPLICING FACTOR U2AF 35 KD SUBUNIT (U2 AUXILIARY FACTOR 35 KD SUBUNIT) (U2 SNRNP AUXILIARY FACTOR SMALL SUBUNIT) (LOC150152), mRNA.	
AC004957				Homo sapiens PAC clone RP5-1093O17 from 7, complete sequence.	
NM_007007		CPSF6	NP_008938	Homo sapiens cleavage and polyadenylation specific factor 6, 68kDa (CPSF6), mRNA.	
NM_019037		EXOSC4	NP_061910	Homo sapiens exosome component 4 (EXOSC4), mRNA.	
XM_070605		LOC137786	XP_070605	Homo sapiens similar to ANTIGEN GOR (LOC137786), mRNA.	
NM_017736		FLJ20274	NP_060206	Homo sapiens hypothetical protein FLJ20274 (FLJ20274), mRNA.	
NM_018046		HSU84971	NP_060516	Homo sapiens vasculogenesis gene on 5q (HSU84971), mRNA.	

Nucleotide GenBank Accession		Protein Product	
Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	GeneBank Accession Number or Manufacturer Sequence Reference	Description
NM_006842	SF3B2	NP_006833	Homo sapiens splicing factor 3b, subunit 2, 145kD (SF3B2), mRNA.
NM_021033	RAP2A	NP_066361	Homo sapiens RAP2A, member of RAS oncogene family (RAP2A), mRNA.
XM_095899	LOC169732	XP_095899	Homo sapiens similar to EXOSOME COMPLEX EXONUCLEASE RRP4 (RIBOSOMAL RNA PROCESSING PROTEIN 4) (LOC169732), mRNA.
NM_031274	TEX13A	NP_112564	Homo sapiens testis expressed sequence 13A (TEX13A), mRNA.
NM_006387	CHERP	NP_006378	Homo sapiens calcium homeostasis endoplasmic reticulum protein (CHERP), mRNA.
NM_000964	RARA	NP_000955	Homo sapiens retinoic acid receptor, alpha (RARA), mRNA.
XM_066446	LOC139051	XP_066446	Homo sapiens similar to pol protein (LOC139051), mRNA.
NM_003072	SMARCA4	NP_003063	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 (SMARCA4), mRNA.
NM_022767	FLJ12484	NP_073604	Homo sapiens hypothetical protein FLJ12484 (FLJ12484), mRNA.
NM_001112	ADARB1	NP_001103	Homo sapiens adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) (ADARB1), transcript variant DRADA2a, mRNA.
NM_017774	CDKAL1	NP_060244	Homo sapiens CDK5 regulatory subunit associated protein 1-like 1 (CDKAL1), mRNA.
NM_013302	EEF2K	NP_037434	Homo sapiens elongation factor-2 kinase (EEF2K), mRNA.
NM_018702	ADARB2	NP_061172	Homo sapiens adenosine deaminase, RNA-specific, B2 (RED2 homolog rat) (ADARB2), mRNA.
XM_089765	LOC143344	XP_089765	Homo sapiens similar to poly(A) binding protein (LOC143344), mRNA.
AF026564	RBMI1	AAC16916	Homo sapiens RNA binding protein 1 (RBMI1) gene, complete cds.
NM_016333	SRRM2	NP_057417	Homo sapiens serine/arginine repetitive matrix 2 (SRRM2), mRNA.
NM_004039	ANXA2	NP_004030	Homo sapiens annexin A2 (ANXA2), mRNA.
NM_006187	OAS3	NP_006178	Homo sapiens 2'-5'-oligoadenylate synthetase 3, 100kDa (OAS3), mRNA.
XM_089587	LOC159428	XP_089587	Homo sapiens similar to EUKARYOTIC TRANSLATION INITIATION FACTOR 4B (EIF-4B) (LOC159428), mRNA.
AB061839	RPS9	BAB79477	Homo sapiens RPS9 gene for ribosomal protein S9, complete cds and sequence.
NM_018060	FLJ10326	NP_060530	Homo sapiens mitochondrial isoleucine tRNA synthetase (FLJ10326), mRNA.

Nucleotide		Protein Product		Description	
GenBank Accession Number or Manufacturer Sequence ID	Manufacturer Probe Name	Gene Name or Manufacturer Probe Name	GeneBank Accession Number or Manufacturer Sequence Reference		
NM_003787	NOL4		NP_003778	Homo sapiens nucleolar protein 4 (NOL4), mRNA.	
NM_003086	SNAPC4		NP_003077	Homo sapiens small nuclear RNA activating complex, polypeptide 4, 190kDa (SNAPC4), mRNA.	
NM_004728	DDX21		NP_004719	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 21 (DDX21), mRNA.	
XM_092043	LOC163160		XP_092043	Homo sapiens similar to polypyrimidine tract binding protein, isoform b; heterogeneous nuclear ribonucleoprotein polypeptic i; RNA binding protein (LOC163160), mRNA.	
NM_014829	DDX46		NP_055644	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 46 (DDX46), mRNA.	
NM_004597	SNRPD2		NP_004588	Homo sapiens small nuclear ribonucleoprotein D2 polypeptide 16.5kDa (SNRPD2), transcript variant 1, mRNA.	
NM_004774	PPARBP		NP_004765	Homo sapiens PPAR binding protein (PPARBP), mRNA.	
NM_002515	NOVA1		NP_002506	Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), transcript variant 1, mRNA.	
NM_006410	HTATIP2		NP_006401	Homo sapiens HIV-1 Tat interactive protein 2, 30kDa (HTATIP2), mRNA.	
NM_005687	FARSLB		NP_005678	Homo sapiens phenylalanine-tRNA synthetase-like, beta subunit (FARSLB), mRNA.	
NM_001644	APOBEC1		NP_001635	Homo sapiens apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1 (APOBEC1), transcript variant 1, mRNA.	
NM_033246	PML		NP_150249	Homo sapiens promyelocytic leukemia (PML), transcript variant 7, mRNA.	
XM_091270	LOC161983		XP_091270	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-destabilizing protein) (Single-strand binding protein) (hnRNP core protein A1) (HDP-1) (Topoisomerase-inhibitor suppressed) (LOC161983), mRNA.	
NM_015409	EP400		NP_056224	Homo sapiens E1A binding protein p400 (EP400), mRNA.	
NM_015453	DKFZP434F091		NP_056268	Homo sapiens DKFZP434F091 protein (DKFZP434F091), mRNA.	
XM_067072	LOC140098		XP_067072	Homo sapiens similar to RBM1 (LOC140098), mRNA.	
XM_056568	LOC147774		XP_056568	Homo sapiens similar to KH-type splicing regulatory protein (FUSE binding protein; 2) (H. sapiens) (LOC147774), mRNA.	
NM_022078	FLJ12455		NP_071361	Homo sapiens hypothetical protein FLJ12455 (FLJ12455), mRNA.	
NM_001364	DLG2		NP_001355	Homo sapiens discs, large homolog 2, chapsyn-110 (Drosophila) (DLG2), mRNA.	

Nucleotide		Protein Product		Description	
GenBank Accession	Gene Name or	GeneBank	Manufacturer	Sequence	Reference
Number or	Manufacturer	Accession	Sequence	Reference	
Manufacturer	Manufacturer	Number or	Manufacturer	Sequence	Reference
Sequence ID	Manufacturer	Sequence	Reference	Sequence	Reference
NM_003752	EIF3S8	NP_003743			Homo sapiens eukaryotic translation initiation factor 3, subunit 8, 110kDa (EIF3S8), mRNA.
XM_091235	LOC161931	XP_091235			Homo sapiens similar to testis nuclear RNA binding protein; testis nuclear RNA-binding protein (LOC161931), mRNA.
NM_014977	ACINUS	NP_055792			Homo sapiens apoptotic chromatin condensation inducer in the nucleus (ACINUS), mRNA.
NM_000461	THRB	NP_000452			Homo sapiens thyroid hormone receptor, beta (erythroblastic leukemia viral (v-erb-a) oncogene homolog 2, avian) (THRB), mRNA.
NM_024939	FLJ21918	NP_079215			Homo sapiens hypothetical protein FLJ21918 (FLJ21918), mRNA.
NM_032572	RNASE7	NP_115961			Homo sapiens ribonuclease, RNase A family, 7 (RNASE7), mRNA.
AF315592	PUMH1	AAG31807			Homo sapiens Pumilio 1 (PUMH1) mRNA, complete cds.
NM_004433	ELF3	NP_004424			Homo sapiens E74-like factor 3 (ets domain transcription factor, epithelial-specific) (ELF3), mRNA.
XM_058943	LOC125925	XP_058943			Homo sapiens similar to R32611_1 (LOC125925), mRNA.
NM_008624	BS69	NP_008615			Homo sapiens adenovirus 5 E1A binding protein (BS69), mRNA.
NM_016166	PIAS1	NP_057250			Homo sapiens protein inhibitor of activated STAT, 1 (PIAS1), mRNA.
NM_008663	RAI	NP_008654			Homo sapiens RelA-associated inhibitor (RAI), mRNA.
XM_058876	MGC49942	XP_058876			Homo sapiens hypothetical protein MGC49942 (MGC49942), mRNA.
NM_000057	BLM	NP_000048			Homo sapiens Bloom syndrome (BLM), mRNA.
NM_004461	FARSLA	NP_004452			Homo sapiens phenylalanine-tRNA synthetase-like, alpha subunit (FARSLA), mRNA.
NM_006163	NFE2	NP_006154			Homo sapiens nuclear factor (erythroid-derived 2), 45kDa (NFE2), mRNA.
AE006640	NDUFB10	AAK61302			Homo sapiens 16p13.3 sequence section 8 of 8.
NM_017846	SECP43	NP_060316			Homo sapiens tRNA selenocysteine associated protein (SECP43), mRNA.
XM_088975	LOC148683	XP_088975			Homo sapiens similar to pumilio homolog 1 (Drosophila); pumilio (Drosophila) homolog 1 (LOC148683), mRNA.
NM_012321	LSM4	NP_036453			Homo sapiens LSM4 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM4), mRNA.
NM_012143	TFIP11	NP_036275			Homo sapiens tufelin interacting protein 11 (TFIP11), mRNA.
NM_001111	ADAR	NP_001102			Homo sapiens adenosine deaminase, RNA-specific (ADAR), transcript variant ADAR-a, mRNA.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID		Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description	
Gene Name or Manufacturer Probe Name					
NM_001535	HRMT1L1	NP_001526	Homo sapiens HMT1 hnRNP methyltransferase-like 1 (S. cerevisiae) (HRMT1L1), mRNA.		
NM_016173	HEMK	NP_057257	Homo sapiens HEMK homolog 7kb (HEMK), mRNA.		
NM_005754	G3BP	NP_005745	Homo sapiens Ras-GTPase-activating protein SH3-domain-binding protein (G3BP), transcript variant 1, mRNA.		
NM_002892	ARID4A	NP_002883	Homo sapiens AT rich interactive domain 4A (RBP1-like) (ARID4A), transcript variant 1, mRNA.		
XM_092221	LOC164891	XP_092221	Homo sapiens similar to mRNA for ribosomal protein S9 (LOC164891), mRNA.		
NM_001412	EIF1A	NP_001403	Homo sapiens eukaryotic translation initiation factor 1A (EIF1A), mRNA.		
XM_095591	LOC169242	XP_095591	Homo sapiens similar to data source:SPTR, source key:O94865, evidence:ISS-homolog to KIAA0765 PROTEIN (HRIHFB2091 PROTEIN) (FRAGMENT)-putative (LOC169242), mRNA.		
NM_033004	NALP1	NP_127497	Homo sapiens NACHT, leucine rich repeat and PYD containing 1 (NALP1), transcript variant 1, mRNA.		
XM_093336	LOC165631	XP_093336	Homo sapiens similar to Eukaryotic translation initiation factor 4B (eIF-4B) (LOC165631), mRNA.		
NM_012255	XRN2	NP_036387	Homo sapiens 5'-3' exoribonuclease 2 (XRN2), mRNA.		
XM_065002	LOC126246	XP_065002	Homo sapiens LOC126246 (LOC126246), mRNA.		
NM_001618	ADPRT	NP_001609	Homo sapiens ADP-ribosyltransferase (NAD ⁺ ; poly (ADP-ribose) polymerase) (ADPRT), mRNA.		
XM_067452	LOC131596	XP_067452	Homo sapiens similar to splicing factor 3a, subunit 2, 66kD; Spliceosome protein SAP-62 (LOC131596), mRNA.		
XM_062601	LOC121365	XP_062601	Homo sapiens similar to RBM1 (LOC121365), mRNA.		
HUMAU4		AAB59352	Homo sapiens (clone JH4B1) PM-scl autoantigen mRNA, complete cds.		
NM_001686	ATP5B	NP_001677	Homo sapiens ATP synthase, H ⁺ transporting, mitochondrial F1 complex, beta polypeptide (ATP5B), mRNA.		
NM_007294	BRCA1	NP_009225	Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1a, mRNA.		
NM_002502	NFKB2	NP_002493	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) (NFKB2), mRNA.		
XM_068248	LOC133225	XP_068248	Homo sapiens similar to heterogeneous ribonuclear particle protein A1.beta - human (LOC133225), mRNA.		
NM_021724	NR1D1	NP_068370	Homo sapiens nuclear receptor subfamily 1, group D, member 1 (NR1D1), mRNA.		
NM_016374	ARID4B	NP_057458	Homo sapiens AT rich interactive domain 4B (RBP1-like) (ARID4B), transcript variant 1, mRNA.		

Nucleotide GenBank Accession Number or Manufacturer Sequence ID		Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description	
Manufacturer	Gene Name or Manufacturer Probe Name	Manufacturer	Sequence	Reference	Description
XM_068022	LOC132772	XP_068022			Homo sapiens similar to split ends; polycephalon; yippee interacting protein 1 (LOC132772), mRNA.
NM_005548	KARS	NP_005539			Homo sapiens lysyl-tRNA synthetase (KARS), mRNA.
NM_006311	NCOR1	NP_006302			Homo sapiens nuclear receptor co-repressor 1 (NCOR1), mRNA.
NM_016505	PS1D	NP_057589			Homo sapiens putative S1 RNA binding domain protein (PS1D), mRNA.
NM_004719	SFRS2IP	NP_004710			Homo sapiens splicing factor, arginine/serine-rich 2, interacting protein (SFRS2IP), mRNA.
NM_003686	EXO1	NP_003677			Homo sapiens exonuclease 1 (EXO1), transcript variant 3, mRNA.
NM_005481	THRAPS5	NP_005472			Homo sapiens thyroid hormone receptor associated protein 5 (THRAPS5), mRNA.
NM_002296	LBR	NP_002287			Homo sapiens lamin B receptor (LBR), transcript variant 1, mRNA.
NM_014966	DHX30	NP_055781			Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 30 (DHX30), transcript variant 2, mRNA.
AF026126	HNRPD	AAC23476			Homo sapiens heterogeneous nuclear ribonucleoprotein D (HNRPD) gene, complete cds.
NM_066901	LOC139801	XP_066901			Homo sapiens LOC139801 (LOC139801), mRNA.
AK057303		BAB71416			Homo sapiens cDNA FLJ32741 fis, clone TEST12001345, highly similar to M.musculus Tenr mRNA for RNA binding protein
XM_067087	LOC140123	XP_067087			Homo sapiens similar to RNA binding motif protein, Y chromosome, family 2 member B (LOC140123), mRNA.
NM_033502	TRERF1	NP_277037			Homo sapiens transcriptional regulating factor 1 (TRERF1), transcript variant 1, mRNA.
NM_005822	DSCR1L1	NP_005813			Homo sapiens Down syndrome critical region gene 1-like 1 (DSCR1L1), mRNA.
NM_002897	RBMS1	NP_002888			Homo sapiens RNA binding motif, single stranded interacting protein 1 (RBMS1), transcript variant scf2, mRNA.
XM_067844	LOC132430	XP_067844			Homo sapiens similar to Polyadenylate-binding protein 4 (Poly(A)-binding protein 4) (PABP 4) (Inducible poly(A)-binding protein) (PABP) (Activated-platelet protein-1) (APP-1) (LOC132430), mRNA.
NM_002949	MRPL12	NP_002940			Homo sapiens mitochondrial ribosomal protein L12 (MRPL12), nuclear gene encoding mitochondrial protein, mRNA.
NM_003219	TERT	NP_003210			Homo sapiens telomerase reverse transcriptase (TERT), transcript variant 1, mRNA.
XM_070624	LOC137819	XP_070624			Homo sapiens LOC137819 (LOC137819), mRNA.

Figure 14

Nucleotide		Protein Product		Description
GenBank Accession	Gene Name or	GeneBank	Manufacturer	
Number or	Manufacturer	Accession	Sequence	
Manufacturer	Manufacturer	Number or	Reference	
Sequence ID	Manufacturer	Sequence	Reference	
NM_002937	Gene Name or	NP_002928	Reference	Homo sapiens ribonuclease, RNase A family, 4 (RNASE4), transcript variant 2, mRNA.
NM_006546	Manufacturer	NP_006537	Reference	Homo sapiens IGF-II mRNA-binding protein 1 (IMP-1), mRNA.
NM_004860	Manufacturer	NP_004851	Reference	Homo sapiens fragile X mental retardation, autosomal homolog 2 (FXR2), mRNA.
NM_003321	Manufacturer	NP_003312	Reference	Homo sapiens Tu translation elongation factor, mitochondrial (TUFM), mRNA.
NM_005693	Manufacturer	NP_005684	Reference	Homo sapiens nuclear receptor subfamily 1, group H, member 3 (NR1H3), mRNA.
NM_006565	Manufacturer	NP_006556	Reference	Homo sapiens CCTC-binding factor (zinc finger protein) (CTCF), mRNA.
NM_018664	Manufacturer	NP_061134	Reference	Homo sapiens Jun dimerization protein p21SNFT (SNFT), mRNA.
M_000938	Manufacturer	NP_000929	Reference	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide B, 140kDa (POLR2B), mRNA.
M_002934	Manufacturer	NP_002925	Reference	Homo sapiens ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin) (RNASE2), mRNA.
M_006980	Manufacturer	NP_008911	Reference	Homo sapiens transcription termination factor, mitochondrial (MTERF), nuclear gene encoding mitochondrial protein, mRNA.

Figure 14

Nucleotide Sequence Description

GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	Nucleotide Sequence Description
NM_012070	ATRN	NP_036202	Homo sapiens attractin (ATRN), transcript variant 3, mRNA.
NM_003488	AKAP1	NP_003479	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA.
XM_044795	LOC92392	XP_044795	Homo sapiens similar to colon cancer antigen NY-CO-45 (LOC92392), mRNA.
XM_089332	LOC149382	XP_089332	Homo sapiens similar to ribosomal protein L22 protein; 60S ribosomal protein L22; Epstein-Barr-encoded RNA-associated protein; Epstein-Barr virus small RNA-associated protein; EBER-associated protein; heparin-binding protein 15; heparin-binding protein HBP15... (LOC149382), mRNA.
NM_001024	RPS21	NP_001015	Homo sapiens ribosomal protein S21 (RPS21), mRNA.
NM_001324	CSTF1	NP_001315	Homo sapiens cleavage stimulation factor, 3' pre-RNA, subunit 1, 50kDa (CSTF1), mRNA.
NM_006625	FUSIP1	NP_006616	Homo sapiens FUS interacting protein (serine-arginine rich) 1 (FUSIP1), transcript variant 1, mRNA.
NM_006540	NCOA2	NP_006531	Homo sapiens nuclear receptor coactivator 2 (NCOA2), mRNA.
NM_005782	THOC4	NP_005773	Homo sapiens THO complex 4 (THOC4), mRNA.
NM_032102	SRP46	NP_115285	Homo sapiens Splicing factor, arginine/serine-rich, 46kD (SRP46), mRNA.
NM_014497	NP220	NP_055312	Homo sapiens NP220 nuclear protein (NP220), mRNA.
..._022915	MRPL44	NP_075066	Homo sapiens mitochondrial ribosomal protein L44 (MRPL44), nuclear gene encoding mitochondrial protein, mRNA.
..._003325	HIRA	NP_003316	Homo sapiens HIR histone cell cycle regulation defective homolog A (S. cerevisiae) (HIRA), mRNA.
..._006397	RNASEH2A	NP_006388	Homo sapiens ribonuclease H2, large subunit (RNASEH2A), mRNA.
..._006548	IMP-2	NP_006539	Homo sapiens IGF-1I mRNA-binding protein 2 (IMP-2), mRNA.
..._005801	SUI1	NP_005792	Homo sapiens putative translation initiation factor (SUI1), mRNA.
..._007157		AAC19158	Homo sapiens clone 23856 unknown mRNA, partial cds.
..._000029	AGT	NP_000020	Homo sapiens angiotensinogen (serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 8) (AGT), mRNA.
..._002904	RDBP	NP_002895	Homo sapiens RD RNA binding protein (RDBP), mRNA.
BC016283	ABCE1	AAH16283	Homo sapiens ATP-binding cassette, sub-family E (OABP), member 1, mRNA (cDNA clone MGC:9023 IMAGE:390915), complete cds.
AF049525	HYPC	AAC27503	Homo sapiens huntingtin-interacting protein HYPC (HYPC) mRNA, partial cds.
NM_014462	LSM1	NP_055277	Homo sapiens LSM1 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM1), mRNA.

Figure 15

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
AB014564	KIAA0864	Homo sapiens mRNA for KIAA0864 protein, partial cds.	
NM_001253	CDC5L	Homo sapiens CDC5 cell division cycle 5-like (S. pombe) (CDC5L), mRNA.	
NM_001991	EZH1	Homo sapiens enhancer of zeste homolog 1 (Drosophila) (EZH1), mRNA.	
NM_001090	ABCF1	Homo sapiens ATP-binding cassette, sub-family F (GCN20), member 1 (ABCF1), mRNA.	
NM_000061	BTK	Homo sapiens Bruton agammaglobulinemia tyrosine kinase (BTK), mRNA.	
AB020657	KIAA0850	Homo sapiens mRNA for KIAA0850 protein, partial cds.	
NM_032390	MKI67IP	Homo sapiens MKI67 (FHA domain) interacting nucleolar phosphoprotein (MKI67IP), mRNA.	
NM_030980	FLJ12671	Homo sapiens hypothetical protein FLJ12671 (FLJ12671), mRNA.	
L_017827	SARS2	Homo sapiens seryl-tRNA synthetase 2 (SARS2), mRNA.	
L_066948	LOC139891	Homo sapiens similar to hypothetical protein BC011593 (LOC139891), mRNA.	
L_091974	LOC147891	Homo sapiens similar to hypothetical protein DKFZp434I1930 (H. sapiens) (LOC147891), mRNA.	
L_014060	MCTS1	Homo sapiens malignant T cell amplified sequence 1 (MCTS1), mRNA.	
L_000647	CCR2	Homo sapiens chemokine (C-C motif) receptor 2 (CCR2), transcript variant A, mRNA.	
L_001016	RPS12	Homo sapiens ribosomal protein S12 (RPS12), mRNA.	
NM_032359	MGC4308	Homo sapiens hypothetical protein MGC4308 (MGC4308), mRNA.	
NM_017736	FLJ20274	Homo sapiens hypothetical protein FLJ20274 (FLJ20274), mRNA.	
NM_006627	POP4	Homo sapiens processing of precursor 4, ribonuclease P/MRP subunit (S. cerevisiae) (POP4), mRNA.	
BC001050	NFATC3	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3, transcript variant 1, mRNA (cDNA clone MGC:1495 IMAGE:3505967), complete cds.	
NM_000344	SMN1	Homo sapiens survival of motor neuron 1, telomeric (SMN1), transcript variant d, mRNA.	

Figure 16 (1)

Gene Symbol		GenBank Accession for Protein		Nucleotide Sequence Description	
XM_09414	LOC166863	XP_094140		Homo sapiens similar to Apobec-1 complementation factor, APOBEC-1 stimulating protein (LOC166863), mRNA.	
NM_00554	KARS	NP_005539		Homo sapiens lysyl-tRNA synthetase (KARS), mRNA.	
NM_00723	XPOT	NP_009166		Homo sapiens exportin, tRNA (nuclear export receptor for tRNAs) (XPOT), mRNA.	
AF230402		AAG50181		Homo sapiens tripartite motif protein TRIM19 beta mRNA, complete cds.	
NM_00368	YARS	NP_003671		Homo sapiens tyrosyl-tRNA synthetase (YARS), mRNA.	
XM_08641	LOC149092	XP_086419		Homo sapiens similar to pumilio homolog 1 (Drosophila) (H. sapiens) (LOC149092), mRNA.	
NM_01562	PRPF31	NP_056444		Homo sapiens PRP31 pre-mRNA processing factor 31 homolog (yeast) (PRPF31), mRNA.	
XM_06759	LOC131898	XP_067598		Homo sapiens similar to POLYADENYLATE-BINDING PROTEIN 2 (POLY(A) BINDING PROTEIN 2) (PABP 2) (LOC131898), mRNA.	
U1255	EIF2C2	AAF13034		Homo sapiens protein translation initiation factor 2C2 (EIF2C2) mRNA, partial cds.	
U3670	LOC149816	XP_086708		Homo sapiens similar to Splicing factor 3A subunit 3 (Spliceosome associated protein 61) (SAP 61) (SF3a60) (LOC149816), mRNA.	
U00702	U1SNRNPBP	NP_008851		Homo sapiens U1-snRNP binding protein homolog (U1SNRNPBP), transcript variant 1, mRNA.	
U01745	STAU	NP_059347		Homo sapiens stauferin, RNA binding protein (Drosophila) (STAU), transcript variant T3, mRNA.	
U00169	AUH	NP_001689		Homo sapiens AU RNA binding protein/enoyl-Coenzyme A hydratase (AUH), nuclear gene encoding mitochondrial protein, mRNA.	
U00171	BICD1	NP_001705		Homo sapiens Bicaudal D homolog 1 (Drosophila) (BICD1), mRNA.	
XM_06690	LOC139804	XP_066904		Homo sapiens similar to testes-specific heterogeneous nuclear ribonucleoprotein G-T (LOC139804), mRNA.	
NM_00459	SFRS10	NP_004584		Homo sapiens splicing factor, arginine/serine-rich 10 (transformer 2 homolog, Drosophila) (SFRS10), mRNA.	
AL117507	DKFZp434F19.35	CAB55969		Homo sapiens mRNA; cDNA DKFZp434F1935 (from clone DKFZp434F1935); partial cds.	

Figure 16 (2)

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
AB020657	KIAA0850	Homo sapiens mRNA for KIAA0850 protein, partial cds.	
AB033019	KIAA1193	Homo sapiens mRNA for KIAA1193 protein, partial cds.	
AF026564	RBMII	Homo sapiens RNA binding protein II (RBMII) gene, complete cds.	
AF165518	MAGOH	Homo sapiens MAGOH isoform (MAGOH) mRNA, complete cds.	
AF273304		Homo sapiens XPMC2 protein mRNA, complete cds.	
AL117507	DKFZp434F193	Homo sapiens mRNA; cDNA DKFZp434F1935 (from clone DKFZp434F1935); partial cds.	
	5		
L01457			
NM_000455	STK11	Homo sapiens (clone JH4B1) PM-scl autoantigen mRNA, complete cds.	
NM_000982	RPL21	Homo sapiens serine/threonine kinase 11 (Peutz-Jeghers syndrome) (STK11), mRNA.	
NM_000996	RPL35A	Homo sapiens ribosomal protein L21 (RPL21), mRNA.	
NM_001004	RPL38	Homo sapiens ribosomal protein L35a (RPL35A), mRNA.	
NM_001011	RPLP2	Homo sapiens ribosomal protein L38 (RPL38), mRNA.	
...	RPS7	Homo sapiens ribosomal protein, large P2 (RPLP2), mRNA.	
...	RPS24	Homo sapiens ribosomal protein S7 (RPS7), mRNA.	
...	RPS29	Homo sapiens ribosomal protein S24 (RPS24), transcript variant 2, mRNA.	
...	ADARB1	Homo sapiens ribosomal protein S29 (RPS29), mRNA.	
...	DDX3X	Homo sapiens adenosine deaminase, RNA-specific, B1 (RED1 homolog rat) (ADARB1), transcript variant DRADA2a, mRNA.	
...		Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked (DDX3X), transcript variant 2, mRNA.	
NM_001357	DHX9	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 9 (DHX9), transcript variant 1, mRNA.	
NM_001618	ADPRT	Homo sapiens ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase) (ADPRT), mRNA.	
NM_002520	NPM1	Homo sapiens nucleophosmin (nucleolar phosphoprotein B23, numatrin) (NPM1), mRNA.	
NM_002967	SAFB	Homo sapiens scaffold attachment factor B (SAFB), mRNA.	
NM_003133	SRP9	Homo sapiens signal recognition particle 9kDa (SRP9), mRNA.	
NM_003429	ZNF85	Homo sapiens zinc finger protein 85 (HPF4, HTF1) (ZNF85), mRNA.	
NM_003472	DEK	Homo sapiens DEK oncogene (DNA binding) (DEK), mRNA.	
NM_003675	PRPF18	Homo sapiens PRP18 pre-mRNA processing factor 18 homolog (yeast) (PRPF18), mRNA.	
NM_003895	SYNJ1	Homo sapiens synaptotagmin 1 (SYNJ1), transcript variant 1, mRNA.	
NM_004169	SHMT1	Homo sapiens serine hydroxymethyltransferase 1 (soluble) (SHMT1), transcript variant 1, mRNA.	
NM_004289	NFE2L3	Homo sapiens nuclear factor (erythroid-derived 2)-like 3 (NFE2L3), mRNA.	
NM_004396	DDX5	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 5 (DDX5), mRNA.	
NM_004990	MARS	Homo sapiens methionine-tRNA synthetase (MARS), mRNA.	
NM_005083	U2AF1L1	Homo sapiens U2(RNU2) small nuclear RNA auxiliary factor 1-like 1 (U2AF1L1), mRNA.	
NM_005548	KARS	Homo sapiens lysyl-tRNA synthetase (KARS), mRNA.	
NM_006624	BS69	Homo sapiens adenovirus 5 E1A binding protein (BS69), mRNA.	

Figure 17 (11)

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
NM_007020	NP_008951	Homo sapiens U1-snRNP binding protein homolog (U1SNRNPBP), transcript variant 1, mRNA.	
NM_007080	NP_009011	Homo sapiens LSM6 homolog, U6 small nuclear RNA associated (S. cerevisiae) (LSM6), mRNA.	
NM_007362	NP_031388	Homo sapiens nuclear cap binding protein subunit 2, 20kDa (NCBP2), mRNA.	
NM_012255	NP_036387	Homo sapiens 5'-3' exonuclease 2 (XRN2), mRNA.	
NM_012423	NP_036555	Homo sapiens ribosomal protein L13a (RPL13A), mRNA.	
NM_014977	NP_055792	Homo sapiens apoptotic chromatin condensation inducer in the nucleus (ACINUS), mRNA.	
NM_015934	NP_057018	Homo sapiens nucleolar protein NOP5/NOP58 (NOP5/NOP58), mRNA.	
NM_016480	NP_057564	Homo sapiens poly(A) binding protein interacting protein 2 (PAIP2), mRNA.	
NM_017840	NP_060310	Homo sapiens mitochondrial ribosomal protein L16 (MRPL16), nuclear gene encoding mitochondrial protein, mRNA.	
NM_018281	NP_060751	Homo sapiens hypothetical protein FLJ10948 (FLJ10948), mRNA.	
NM_018427	NP_060897	Homo sapiens RNA polymerase I transcription factor RRN3 (RRN3), mRNA.	
NM_018664	NP_061134	Homo sapiens Jun dimerization protein p21SNFT (SNFT), mRNA.	
NM_021104	NP_066927	Homo sapiens ribosomal protein L41 (RPL41), mRNA.	
_022551	NP_072045	Homo sapiens ribosomal protein S18 (RPS18), mRNA.	
_031210	NP_112487	Homo sapiens hypothetical protein DC50 (DC50), mRNA.	
_001524	XP_001524	Homo sapiens similar to TAR DNA-binding protein-43 (TDP-43) (LOC151173), mRNA.	
_016729	XP_016729	Homo sapiens similar to nuclear receptor coactivator 6 interacting protein (H. sapiens) (LOC157679), mRNA.	
_031058	XP_031058	Homo sapiens similar to nucleolar protein interacting with the FHA domain of pK1-67 (H. sapiens) (LOC147647), mRNA.	
_047920	XP_047920	Homo sapiens similar to Unknown (protein for IMAGE:3587716) (LOC92906), mRNA.	
_058430	XP_058430	Homo sapiens similar to hypothetical protein similar to RNA-binding protein lark (LOC119880), mRNA.	
_058943	XP_058943	Homo sapiens similar to R32611_1 (LOC125925), mRNA.	
XM_059194	XP_059194	Homo sapiens hypothetical protein BC014917 (LOC127933), mRNA.	
XM_059936	XP_059936	Homo sapiens similar to RNA-binding protein Raly (LOC138046), mRNA.	
XM_060808	XP_060808	Homo sapiens similar to Vigilin (High density lipoprotein-binding protein) (HDL-binding protein) (LOC128072), mRNA.	
XM_067452	XP_067452	Homo sapiens similar to splicing factor 3a, subunit 2, 66kD; Spliceosome protein SAP-62 (LOC131596), mRNA.	
XM_068248	XP_068248	Homo sapiens similar to heterogeneous ribonuclear particle protein A1.beta - human (LOC133225), mRNA.	
XM_068457	XP_068457	Homo sapiens similar to splicing coactivator subunit SRm300; RNA binding protein; AT-rich element binding factor; serine/arginine repetitive matrix 2 (LOC133655), mRNA.	
XM_088640	XP_088640	Homo sapiens similar to bA353C18.3.2 (splicing factor CC1.3, isoform 2 (CC1.4)) (LOC158685), mRNA.	

Figure 17 (2)

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
XM_093336 NM_000971	LOC165631 RPL7	Homo sapiens similar to Eukaryotic translation initiation factor 4B (eIF-4B) (LOC165631), mRNA. Homo sapiens ribosomal protein L7 (RPL7), mRNA.	

figure 17(3)

GenBank Accession for mRNA		Gene Symbol	GenBank Accession for Protein	Nucleotide Sequence Description
XM_091042	LOC16168	2	XP_091042	Homo sapiens similar to data source:MGD, source key:MGI:107795, evidence:ISS-heterogeneous nuclear ribonucleoprotein C-putative (LOC161682), mRNA.
XM_068433	LOC13361	6	XP_068433	Homo sapiens similar to Putative RNA-binding protein 15 (RNA binding motif protein 15) (One-twenty two protein) (LOC133616), mRNA.
XM_093259	LOC17033	0	XP_093259	Homo sapiens similar to RBM1 (LOC170330), mRNA.
XM_085059	LOC14522	3	XP_085059	Homo sapiens similar to Splicing factor 3B subunit 4 (Spliceosome associated protein 49) (SAP 49) (SF3b50) (Pre-mRNA splicing factor SF3b 49 kDa subunit) (LOC145223), mRNA.
AF121255	EIF2C2		AAF13034	Homo sapiens protein translation initiation factor 2C2 (EIF2C2) mRNA, partial cds.
NM_005664	MKRN3		NP_005655	Homo sapiens makorin, ring finger protein, 3 (MKRN3), mRNA.
NM_001357	DHX9		NP_001348	Homo sapiens DEAH (Asp-Glu-Ala-His) box polypeptide 9 (DHX9), transcript variant 1, mRNA.
NM_030941	LOC81691		NP_112203	Homo sapiens exonuclease NEF-sp (LOC81691), mRNA.
NM_014852	KIAA0682		NP_055667	Homo sapiens KIAA0682 gene product (KIAA0682), mRNA.
NM_000246	MHC2TA		NP_000237	Homo sapiens MHC class II transactivator (MHC2TA), mRNA.
IM_007165	SF3A2		NP_009096	Homo sapiens splicing factor 3a, subunit 2, 66kDa (SF3A2), mRNA.
IM_005384	NFIL3		NP_005375	Homo sapiens nuclear factor, interleukin 3 regulated (NFIL3), mRNA.
IM_018427	RRN3		NP_060897	Homo sapiens RNA polymerase I transcription factor RRN3 (RRN3), mRNA.
CM_060212	LOC12686	1	XP_060212	Homo sapiens similar to tudor repeat associator with PCTAIRE 2 (LOC126861), mRNA.
IM_004895	CIAS1		NP_004886	Homo sapiens cold autoimmune syndrome 1 (CIAS1), transcript variant 1, mRNA.
IM_003750	EIF3S10		NP_003741	Homo sapiens eukaryotic translation initiation factor 3, subunit 10 theta, 150/170kDa (EIF3S10), mRNA.
CM_092386	LOC16511	5	XP_092386	Homo sapiens similar to KIAA1841 protein (LOC165115), mRNA.
IM_007294	BRCA1		NP_009225	Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1a, mRNA.
NM_001991	EZH1		NP_001982	Homo sapiens enhancer of zeste homolog 1 (Drosophila) (EZH1), mRNA.
XM_010852	LOC15124	9	XP_010852	Homo sapiens similar to helix-destabilizing protein - rat (LOC151249), mRNA.
NM_002502	NFKB2		NP_002493	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) (NFKB2), mRNA.
NM_000946	PRIM1		NP_000937	Homo sapiens primase, polypeptide 1, 49kDa (PRIM1), mRNA.
NM_006893	LGTM		NP_008824	Homo sapiens ligatin (LGTM), mRNA.
XM_094140	LOC16686	3	XP_094140	Homo sapiens similar to Apobec-1 complementation factor, APOBEC-1 stimulating protein (LOC166863), mRNA.
AF083441			AAD52028	Homo sapiens SUI1 isolog mRNA, complete cds.
XM_068457	LOC13365	5	XP_068457	Homo sapiens similar to splicing coactivator subunit SRm300; RNA binding protein; AT-rich element binding factor, serine/arginine repetitive matrix 2 (LOC133655), mRNA.

Figure 18 (i)

GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	Nucleotide Sequence Description
NM_000125	ESR1	NP_000116	Homo sapiens estrogen receptor 1 (ESR1), mRNA.
NM_015971	MRPS7	NP_057055	Homo sapiens mitochondrial ribosomal protein S7 (MRPS7), nuclear gene encoding mitochondrial protein, mRNA.
NM_032514	MAP1LC3 A	NP_115903	Homo sapiens microtubule-associated protein 1 light chain 3 alpha (MAP1LC3A), transcript variant 1, mRNA.
NM_004504	HRB	NP_004495	Homo sapiens HIV-1 Rev binding protein (HRB), mRNA.
NM_001029	RPS26	NP_001020	Homo sapiens ribosomal protein S26 (RPS26), mRNA.
NM_002535	OAS2	NP_002526	Homo sapiens 2'-5'-oligoadenylate synthetase 2, 69/71kDa (OAS2), transcript variant 2, mRNA.
NM_003325	HIRA	NP_003316	Homo sapiens HIR histone cell cycle regulation defective homolog A (S. cerevisiae) (HIRA), mRNA.

Figure 18(2)

GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	Nucleotide Sequence Description
NM_092652 NM_004705	LOC165534 PRKRIR	XP_092652 NP_004696	Homo sapiens LOC165534 (LOC165534), mRNA. Homo sapiens protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, repressor of (P58 repressor) (PRKRIR), mRNA.
NM_001537 XM_070624 NM_006397 NM_012423 XM_085059	HSBP1 LOC137819 RNASEH2A RPL13A LOC145223	NP_001528 XP_070624 NP_006388 NP_036555 XP_085059	Homo sapiens heat shock factor binding protein 1 (HSBP1), mRNA. Homo sapiens LOC137819 (LOC137819), mRNA. Homo sapiens ribonuclease H2, large subunit (RNASEH2A), mRNA. Homo sapiens ribosomal protein L13a (RPL13A), mRNA. Homo sapiens similar to Splicing factor 3B subunit 4 (Spliceosome associated protein 49) (SAP 49) (SF3b50) (Pre-mRNA splicing factor SF3b 49 kDa subunit) (LOC145223), mRNA.
NM_003136 XM_091653	SRP54 LOC162582	NP_003127 XP_091653	Homo sapiens signal recognition particle 54kDa (SRP54), mRNA. Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC162582), mRNA.
NM_005657 M_004491 M_007205 M_006565 AF026563 M_007297 M_004559 M_060358 M_003685 M_005115 M_002904 M_005772 X98494 NM_015062	TP53BP1 GRLF1 TREX2 CTCF RBM1 BRCA1 NSEP1 LOC127164 KHSRP MVP RDBP RCL1 mpp10 PPRC1	NP_005648 NP_004482 NP_009136 NP_006556 NP_009228 NP_004550 XP_060358 NP_003676 NP_005106 NP_002895 NP_005763 CAA67120 NP_055877	Homo sapiens tumor protein p53 binding protein, 1 (TP53BP1), mRNA. Homo sapiens glucocorticoid receptor DNA binding factor 1 (GRLF1), transcript variant 2, mRNA. Homo sapiens three prime repair exonuclease 2 (TREX2), transcript variant 1, mRNA. Homo sapiens CCTC-binding factor (zinc finger protein) (CTCF), mRNA. Homo sapiens RBM1 gene, exon 6. Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1-delta2-10, mRNA. Homo sapiens nuclease sensitive element binding protein 1 (NSEP1), mRNA. Homo sapiens similar to TAR DNA binding protein (LOC127164), mRNA. Homo sapiens KH-type splicing regulatory protein (FUSE binding protein 2) (KHSRP), mRNA. Homo sapiens major vault protein (MVP), transcript variant 2, mRNA. Homo sapiens RD RNA binding protein (RDBP), mRNA. Homo sapiens RNA terminal phosphate cyclase-like 1 (RCL1), mRNA. H.sapiens mRNA for M phase phosphoprotein 10. Homo sapiens peroxisome proliferative activated receptor, gamma, coactivator-related 1 (PPRC1), mRNA.
AF083441 XM_068457	LOC133655	AAD52028 XP_068457	Homo sapiens SU11 isolog mRNA, complete cds.
AK000256 NM_004599 NM_005968 BC000138	SREBF2 HNRPM HNRPM	BAA91036 NP_004590 NP_005959 AAH00138	Homo sapiens similar to splicing coactivator subunit SRM300; RNA binding protein; AT-rich element binding factor, serine/arginine repetitive matrix 2 (LOC133655), mRNA. Homo sapiens cDNA FLJ20249 fis, clone COLF6621. Homo sapiens sterol regulatory element binding transcription factor 2 (SREBF2), mRNA. Homo sapiens heterogeneous nuclear ribonucleoprotein M (HNRPM), transcript variant 1, mRNA. Homo sapiens heterogeneous nuclear ribonucleoprotein M, transcript variant 1, mRNA (cDNA clone MGC:5136 IMAGE:2900532), complete cds.

Figure 19 (11)

Gene		Nucleotide Sequence Description	
GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	
NM_004992	MECP2	NP_004983	Homo sapiens methyl CpG binding protein 2 (Rett syndrome) (MECP2), mRNA
NM_001714	BICD1	NP_001705	Homo sapiens Bicaudal D homolog 1 (Drosophila) (BICD1), mRNA
NM_015409	EP400	NP_056224	Homo sapiens E1A binding protein p400 (EP400), mRNA
BC007052	HNRPC	AAH07052	Homo sapiens heterogeneous nuclear ribonucleoprotein C (C1/C2), mRNA (cDNA clone MGC:12469 IMAGE:3686841), complete cds.
NM_012426	SF3B3	NP_036558	Homo sapiens splicing factor 3b, subunit 3, 130kDa (SF3B3), mRNA
NM_003016	SFRS2	NP_003007	Homo sapiens splicing factor, arginine/serine-rich 2 (SFRS2), mRNA
NM_002694	POLR2C	NP_002685	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide C, 33kDa (POLR2C), transcript variant alpha, mRNA
NM_002197	ACO1	NP_002188	Homo sapiens aconitase 1, soluble (ACO1), mRNA
AF075000	H_YH95C04.1	AAC28457	Homo sapiens full length insert cDNA YH95C04.
BC002395	SF3A3	AAH02395	Homo sapiens splicing factor 3a, subunit 3, 60kDa, mRNA (cDNA clone MGC:8445 IMAGE:2821350), complete cds.
V11_056568	LOC147774	XP_056568	Homo sapiens similar to KH-type splicing regulatory protein (FUSE binding protein 2) (H. sapiens) (LOC147774), mRNA
004846	EIF4EL3	NP_004837	Homo sapiens eukaryotic translation initiation factor 4E-like 3 (EIF4EL3), mRNA
005463	HNRPDL	NP_005454	Homo sapiens heterogeneous nuclear ribonucleoprotein D-like (HNRPDL), transcript variant 1, mRNA
067844	LOC132430	XP_067844	Homo sapiens similar to Polyadenylate-binding protein 4 (Poly(A)-binding protein 4) (PABP 4) (Inducible poly(A)-binding protein) (iPABP) (Activated-platelet protein-1) (APP-1) (LOC132430), mRNA
006112	PPIE	NP_006103	Homo sapiens peptidylprolyl isomerase E (cyclophilin E) (PPIE), transcript variant 1, mRNA
017840	MRPL16	NP_060310	Homo sapiens mitochondrial ribosomal protein L16 (MRPL16), nuclear gene encoding mitochondrial protein, mRNA
030621	DICER1	NP_085124	Homo sapiens Dicer1, Dcr-1 homolog (Drosophila) (DICER1), transcript variant 2, mRNA
004397	DDX6	NP_004388	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 6 (DDX6), mRNA
NM_002111	HD	NP_002102	Homo sapiens huntingtin (Huntington disease) (HD), mRNA
AL021546	SFRS9	CAA18498	Human DNA sequence from clone XX-15E1 on chromosome 12, complete sequence.
NM_033501	TRERF1	NP_277036	Homo sapiens transcriptional regulating factor 1 (TRERF1), transcript variant 2, mRNA
BC012090		AAH12090	Homo sapiens, Similar to heterogeneous nuclear ribonucleoprotein A3, clone MGC:20045 IMAGE:4661041, mRNA, complete cds.
NM_006546	IMP-1	NP_006537	Homo sapiens IGF-II mRNA-binding protein 1 (IMP-1), mRNA
XM_068928	LOC134611	XP_068928	Homo sapiens similar to TAR DNA binding protein (LOC134611), mRNA
NM_016381	TREX1	NP_057465	Homo sapiens three prime repair exonuclease 1 (TREX1), transcript variant 1, mRNA
NM_017518	TREX2	NP_059988	Homo sapiens three prime repair exonuclease 2 (TREX2), transcript variant 5, mRNA
NM_015646	RAP1B	NP_056461	Homo sapiens RAP1B, member of RAS oncogene family (RAP1B), mRNA
NM_052840	BRUNOL6	NP_443072	Homo sapiens bruno-like 6, RNA binding protein (Drosophila) (BRUNOL6), mRNA

Figure 19(2)

GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	Nucleotide Sequence Description
NM_001538	HSF4	NP_001529	1' 10 sapiens heat shock transcription factor 4 (HSF4), mRNA.
XM_063246	LOC122863	XP_063246	10 sapiens LOC122863 (LOC122863), mRNA.
XM_063244	LOC122861	XP_063244	Homo sapiens similar to Nonsecretory ribonuclease precursor (Ribonuclease US) (Eosinophil-derived neurotoxin) (RNase Upl-2) (Ribonuclease 2) (RNase 2) (LOC122861), mRNA.
AW607076			PMO-HT0452-140100-002-e07 HT0452 Homo sapiens cDNA, mRNA sequence.
NM_016816	OAS1	NP_058132	Homo sapiens 2',5'-oligoadenylate synthetase 1, 40/46kDa (OAS1), transcript variant E18, mRNA.
NM_004175	SNRPD3	NP_004166	Homo sapiens small nuclear ribonucleoprotein D3 polypeptide 18kDa (SNRPD3), mRNA.
AB020657	KIAA0850	BAA74873	Homo sapiens mRNA for KIAA0850 protein, partial cds.
BC000595	DDX17	AAH00595	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 17, mRNA (cDNA clone MGC:2030 IMAGE:3345982), complete cds.
XM_094158	LOC152994	XP_094158	Homo sapiens similar to splicing factor 3a, subunit 2, 66kD; Spliceosome protein SAP-62 (LOC152994), mRNA.
NM_007204	DDX20	NP_009135	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 20 (DDX20), mRNA.
NM_006980	MTERF	NP_008911	Homo sapiens transcription termination factor, mitochondrial (MTERF), nuclear gene encoding mitochondrial protein, mRNA.
A_006491	NOVA1	NP_006482	Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), transcript variant 3, mRNA.
A_032102	SRP46	NP_115285	Homo sapiens Splicing factor, arginine/serine-rich, 46kD (SRP46), mRNA.
F035940	MAGOH	AAC39606	Homo sapiens MAGOH mRNA, complete cds.
A_066948	LOC139891	XP_066948	Homo sapiens similar to hypothetical protein BC011593 (LOC139891), mRNA.
A_007165	SF3A2	NP_009096	Homo sapiens splicing factor 3a, subunit 2, 66kDa (SF3A2), mRNA.
A_014223	NFYC	NP_055038	Homo sapiens nuclear transcription factor Y, gamma (NFYC), mRNA.
A_093219	LOC170270	XP_093219	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A3 homolog 2 (hnRNP A3(B)), (LOC170270), mRNA.
A_002137	HNRPA2B1	NP_002128	Homo sapiens heterogeneous nuclear ribonucleoprotein A2/B1 (HNRPA2B1), transcript variant A2, mRNA.
J252060	TRABID	CAB64449	Homo sapiens mRNA for TRABID protein (TRABID gene).
NM_014977	ACINUS	NP_055792	Homo sapiens apoptotic chromatin condensation inducer in the nucleus (ACINUS), mRNA.
XM_094555	LOC167540	XP_094555	Homo sapiens similar to RIKEN cDNA C130020J04 (LOC167540), mRNA.
XM_065946	LOC130900	XP_065946	Homo sapiens similar to Heterogeneous nuclear ribonucleoprotein A1 (Helix-destabilizing protein) (Single-strand binding protein) (hnRNP core protein A1) (HDP-1) (Topoisomerase-inhibitor suppressed) (LOC130900), mRNA.
AF005068	BRCA1	AAB61673	Homo sapiens breast and ovarian cancer susceptibility protein splice variant (BRCA1) mRNA, complete cds.
NM_012469	C20orf14	NP_036601	Homo sapiens chromosome 20 open reading frame 14 (C20orf14), mRNA.
NM_004643	PABPN1	NP_004634	Homo sapiens poly(A) binding protein, nuclear 1 (PABPN1), mRNA.
NM_003325	HIRA	NP_003316	Homo sapiens HIR histone cell cycle regulation defective homolog A (S. cerevisiae) (HIRA), mRNA.

Figure 1a(3)

GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	Nucleotide Sequence Description
NM_019038	TDRD4	NP_061911	Homo sapiens tudor domain containing 4 (TDRD4), mRNA.
NM_025065	RPF1	NP_079341	Homo sapiens RNA processing factor 1 (RPF1), mRNA.
NM_005877	SF3A1	NP_005868	Homo sapiens splicing factor 3a, subunit 1, 120kDa (SF3A1), mRNA.
NM_002138	HNRPD	NP_002129	Homo sapiens heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa) (HNRPD), transcript variant 3, mRNA.
XM_058876	MGC49942	XP_058876	Homo sapiens hypothetical protein MGC49942 (MGC49942), mRNA.
NM_021976	RXRB	NP_068811	Homo sapiens retinoid X receptor, beta (RXRB), mRNA.
NM_003489	NRIP1	NP_003480	Homo sapiens nuclear receptor interacting protein 1 (NRIP1), mRNA.
M29916	RMRP		Human mitochondrial RNA-processing endoribonuclease RNA (mrp) gene; complete cds.
XM_066446	LOC139051	XP_066446	Homo sapiens similar to pol protein (LOC139051), mRNA.

Figure 19(4)

Gene		Nucleotide Sequence Description	
GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	
NM_007297	BRCA1	NP_009228	Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1-delta2-10, mRNA
NM_022830	FLJ22347	NP_073741	Homo sapiens hypothetical protein FLJ22347 (FLJ22347), mRNA
NM_018722	HSA40461	NP_061192	Homo sapiens BVRT protein (HSA40461), mRNA
	7		
XM_058876	MGC49942	XP_058876	Homo sapiens hypothetical protein MGC49942 (MGC49942), mRNA
NM_015698	T54	NP_056513	Homo sapiens T54 protein (T54), mRNA
XM_060102	LOC12663	XP_060102	Homo sapiens LOC126635 (LOC126635), mRNA
	5		
NM_013316	CNOT4	NP_037448	Homo sapiens CCR4-NOT transcription complex, subunit 4 (CNOT4), mRNA
AB033019	KIAA1193	BAA86507	Homo sapiens mRNA for KIAA1193 protein, partial cds.
XM_067598	LOC13189	XP_067598	Homo sapiens similar to POLYADENYLATE-BINDING PROTEIN 2 (POLY(A) BINDING PROTEIN 2) (PABP 2) (LOC131898), mRNA
	8		
NM_000937	POLR2A	NP_000928	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A, 220kDa (POLR2A), mRNA
XM_087530	LOC15282	XP_087530	Homo sapiens similar to hypothetical protein FLJ20273 (LOC152827), mRNA
	7		
U_047272	LOC92781	XP_047272	Homo sapiens similar to dJ309K20.4 (KIAA0765, putative brain nuclear targeted protein (HRIHFB2091, RNA recognition motif (RNP, RRM or RBD domain) containing protein)) (LOC92781), mRNA
U_090177	LOC16025	XP_090177	Homo sapiens similar to nuclear matrix protein NMP200 related to splicing factor PRP19 (H. sapiens) (LOC160258), mRNA
	8		
U252060	TRABID	CAB64449	Homo sapiens mRNA for TRABID protein (TRABID gene).
U_007185	TNRC4	NP_009116	Homo sapiens trinucleotide repeat containing 4 (TNRC4), mRNA
U036532	p53R2	BAA92493	Homo sapiens p53R2 gene for ribonucleotide reductase, exon 9 and complete cds.
U_005119	THRAP3	NP_005110	Homo sapiens thyroid hormone receptor associated protein 3 (THRAP3), mRNA
U_013235	RNASE3L	NP_037367	Homo sapiens nuclear RNase III Drosha (RNASE3L), mRNA
U_004175	SNRPD3	NP_004166	Homo sapiens small nuclear ribonucleoprotein D3 polypeptide 18kDa (SNRPD3), mRNA
XM_066586	LOC13926	XP_066586	Homo sapiens similar to Con1 (LOC139264), mRNA
	4		
NM_018122	FLJ10514	NP_060592	Homo sapiens hypothetical protein FLJ10514 (FLJ10514), mRNA
NM_006540	NCOA2	NP_006531	Homo sapiens nuclear receptor coactivator 2 (NCOA2), mRNA
BC004154	NR2F1	AAH04154	Homo sapiens nuclear receptor subfamily 2, group F, member 1, mRNA (cDNA clone MGC:2388 IMAGE:2824138), complete cds.
NM_006567	FARS1	NP_006558	Homo sapiens phenylalanine-tRNA synthetase 1 (mitochondrial) (FARS1), nuclear gene encoding mitochondrial protein, mRNA
XM_086792	LOC15015	XP_086792	Homo sapiens similar to SPLICING FACTOR U2AF 35 KD SUBUNIT (U2 AUXILIARY FACTOR 35 KD SUBUNIT) (U2 SNRNP AUXILIARY FACTOR SMALL SUBUNIT) (LOC150152), mRNA
	2		
AF084974	EXO1	AAD13754	Homo sapiens exonuclease I (EXO1) mRNA, complete cds.

Figure 20 (1)

GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	Nucleotide Sequence Description
XM_064113	LOC12438	XP_064113	Homo sapiens LOC124380 (LOC124380), mRNA.
NM_002904	RDBP	NP_002895	Homo sapiens RD RNA binding protein (RDBP), mRNA.
NM_005463	HNRPDL	NP_005454	Homo sapiens heterogeneous nuclear ribonucleoprotein D-like (HNRPDL), transcript variant 1, mRNA.
NM_003244	TGIF	NP_003235	Homo sapiens TGFB-induced factor (TALE family homeobox) (TGIF), transcript variant 4, mRNA.
XM_070603	LOC13778	XP_070603	Homo sapiens similar to ANTIGEN GOR (LOC137784), mRNA.
NM_018415	TRERF1	NP_060885	Homo sapiens transcriptional regulating factor 1 (TRERF1), transcript variant 3, mRNA.
XM_065361	LOC12971	XP_065361	Homo sapiens similar to tudor protein (LOC129715), mRNA.
NM_020158	RRP46	NP_064543	Homo sapiens exosome component Rrp46 (RRP46), mRNA.
NM_004343	CALR	NP_004334	Homo sapiens calreticulin (CALR), mRNA.
NM_006112	PPIE	NP_006103	Homo sapiens peptidylprolyl isomerase E (cyclophilin E) (PPIE), transcript variant 1, mRNA.
NM_005877	SF3A1	NP_005868	Homo sapiens splicing factor 3a, subunit 1, 120kDa (SF3A1), mRNA.
_001714	BICD1	NP_001705	Homo sapiens Bicaudal D homolog 1 (Drosophila) (BICD1), mRNA.
_002467	MYC	NP_002458	Homo sapiens v-myc myelocytomatosis viral oncogene homolog (avian) (MYC), mRNA.
_014663	JMJD2A	NP_055478	Homo sapiens jumonji domain containing 2A (JMJD2A), mRNA.
_001436	FBL	NP_001427	Homo sapiens fibrillarin (FBL), mRNA.
_019038	TDRD4	NP_061911	Homo sapiens tudor domain containing 4 (TDRD4), mRNA.

Figure 20(2)

Gene		Nucleotide Sequence Description	
GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	
NM_013302	EEF2K	NP_037434	Homo sapiens elongation factor-2 kinase (EEF2K), mRNA.
NM_017948	NOL8	NP_060418	Homo sapiens nucleolar protein 8 (NOL8), mRNA.
XM_089332	LOC14938 ²	XP_089332	Homo sapiens similar to ribosomal protein L22 protein; 60S ribosomal protein L22; Epstein-Barr-encoded RNA-associated protein; Epstein-Barr virus small RNA-associated protein; EBER-associated protein; heparin-binding protein 15; heparin-binding protein HBp15... (LOC149382), mRNA.
AF001947	PRP3	AAC09069	Homo sapiens U4/U6-associated RNA splicing factor (PRP3) mRNA, complete cds.
AF062105	IGH	AAC18141	Homo sapiens clone 21u-19 immunoglobulin heavy chain variable region (IGH) mRNA, partial cds.
NM_004169	SHMT1	NP_004160	Homo sapiens serine hydroxymethyltransferase 1 (soluble) (SHMT1), transcript variant 1, mRNA.
NM_000992	RPL29	NP_000983	Homo sapiens ribosomal protein L29 (RPL29), mRNA.
XM_060808	LOC12807 ²	XP_060808	Homo sapiens similar to Vigilin (High density lipoprotein-binding protein) (HDL-binding protein) (LOC128072), mRNA.
NM_003902	FUBP1	NP_003893	Homo sapiens far upstream element (FUSE) binding protein 1 (FUBP1), mRNA.
XM_084392	LOC14296 ⁶	XP_084392	Homo sapiens region containing tudor; Ras homolog enriched in brain 2 (LOC142966), mRNA.
A_F391283	SSA1	AAK76432	Homo sapiens 11p15.5 clone LOH11A, partial sequence.
A_003325	HIRA	NP_003316	Homo sapiens HIR histone cell cycle regulation defective homolog A (S. cerevisiae) (HIRA), mRNA.
A_070832	LOC13826 ⁷	XP_070832	Homo sapiens similar to hypothetical protein (LOC138267), mRNA.
A_088257	LOC15543 ⁵	XP_088257	Homo sapiens hypothetical protein LOC155435 (LOC155435), mRNA.
K021418			Homo sapiens cDNA FLJ11356 fis, clone HEMBA1000150, highly similar to Homo sapiens putative RNA helicase mRNA.
J252060	TRABID	CAB64449	Homo sapiens mRNA for TRABID protein (TRABID gene).
A_014852	KIAA0682	NP_055667	Homo sapiens KIAA0682 gene product (KIAA0682), mRNA.
A_005870	SAP18	NP_005861	Homo sapiens sin3-associated polypeptide, 18kDa (SAP18), mRNA.
NM_005587	MEF2A	NP_005578	Homo sapiens MADS box transcription enhancer factor 2, polypeptide A (myocyte enhancer factor 2A) (MEF2A), mRNA.
NM_016169	SUFU	NP_057253	Homo sapiens suppressor of fused homolog (Drosophila) (SUFU), mRNA.
XM_089062	LOC14886 ⁶	XP_089062	Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC148866), mRNA.
NM_004875	POLR1C	NP_004866	Homo sapiens polymerase (RNA) I polypeptide C, 30kDa (POLR1C), transcript variant 2, mRNA.
AF129756		AAD18092	Homo sapiens MSH55 gene, partial cds; and CLIC1, DDAH, G6b, G6c, G6d, G6e, G6f, BAT5, G5b, CSK2B, BAT4, G4, Apo M, BAT3, BAT2, AIF-1, 1C7, LST-1, LTB, TNF, and LTA genes, complete cds.
NM_014872	ZBTB5	NP_055687	Homo sapiens zinc finger and BTB domain containing 5 (ZBTB5), mRNA.

Figure 21(1)

Gene		Nucleotide Sequence Description	
GenBank Accession for mRNA	Gene Symbol	GenBank Accession for Protein	
NM_015629	PRPF31	NP_056444	Homo sapiens PRP31 pre-mRNA processing factor 31 homolog (yeast) (PRPF31), mRNA.
NM_017921	NPL4	NP_060391	Homo sapiens hypothetical protein FLJ20657 (NPL4), mRNA.
NM_002534	OAS1	NP_002525	Homo sapiens 2',5'-oligoadenylate synthetase 1, 40/46kDa (OAS1), transcript variant E16, mRNA.
AF083441		AAD52028	Homo sapiens SU11 isolog mRNA, complete cds.
AF026563	RBML		Homo sapiens RBML gene, exon 6.
NM_012330	MYST4	NP_036462	Homo sapiens MYST histone acetyltransferase (monocytic leukemia) 4 (MYST4), mRNA.
NM_003298	NR2C2	NP_003289	Homo sapiens nuclear receptor subfamily 2, group C, member 2 (NR2C2), mRNA.
XM_061319	LOC119177	XP_061319	Homo sapiens similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HELIX-DESTABILIZING PROTEIN) (SINGLE-STRAND BINDING PROTEIN) (HNRNP CORE PROTEIN A1) (LOC119177), mRNA.
XM_091974	LOC147891	XP_091974	Homo sapiens similar to hypothetical protein DKFZp434i1930 (H. sapiens) (LOC147891), mRNA.
NM_032102	SRP46	NP_115285	Homo sapiens Splicing factor, arginine/serine-rich, 46kD (SRP46), mRNA.
NM_052879	LOC113251	NP_443111	Homo sapiens c-Mpl binding protein (LOC113251), transcript variant 1, mRNA.
A1019038	TDRD4	NP_061911	Homo sapiens tudor domain containing 4 (TDRD4), mRNA.
A1000991	RPL28	NP_000982	Homo sapiens ribosomal protein L28 (RPL28), mRNA.
A1006893	LGTN	NP_008824	Homo sapiens ligatin (LGTN), mRNA.
A1060102	LOC126635	XP_060102	Homo sapiens LOC126635 (LOC126635), mRNA.
A1025065	RPF1	NP_079341	Homo sapiens RNA processing factor 1 (RPF1), mRNA.
A1004774	PPARBP	NP_004765	Homo sapiens PPAR binding protein (PPARBP), mRNA.
A1022767	FLJ12484	NP_073604	Homo sapiens hypothetical protein FLJ12484 (FLJ12484), mRNA.
A1007165	SF3A2	NP_009096	Homo sapiens splicing factor 3a, subunit 2, 66kDa (SF3A2), mRNA.
A1068248	LOC133225	XP_068248	Homo sapiens similar to heterogeneous ribonuclear particle protein A1 beta - human (LOC133225), mRNA.
NM_004039	ANXA2	NP_004030	Homo sapiens annexin A2 (ANXA2), mRNA.

Figure 21(2)

Gene Symbol	GenBank Accession for mRNA	GenBank Accession for Protein	Nucleotide Sequence Description
	NM_007375	NP_031401	Homo sapiens TAR DNA binding protein (TARDBP), mRNA.
	NM_000978	NP_000969	Homo sapiens ribosomal protein L23 (RPL23), mRNA.
	NM_005035	NP_005026	Homo sapiens polymerase (RNA) mitochondrial (DNA directed) (POLRMT), nuclear gene encoding mitochondrial protein, mRNA.
	NM_018723	NP_061193	Homo sapiens ataxin 2-binding protein 1 (A2BP1), transcript variant 4, mRNA.
	NM_031274	NP_112564	Homo sapiens testis expressed sequence 13A (TEX13A), mRNA.
	NM_019037	NP_061910	Homo sapiens testis expressed sequence 13A (TEX13A), mRNA.
	NM_002938	NP_002929	Homo sapiens exosome complex exonuclease RRP41 (RRP41), mRNA.
	NM_016024	NP_057108	Homo sapiens ring finger protein 4 (RNF4), mRNA.
	NM_000980	NP_000971	Homo sapiens CGI-79 protein (CGI-79), mRNA.
	NM_005642	NP_005633	Homo sapiens ribosomal protein L18a (RPL18A), mRNA.
			Homo sapiens TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 55kDa (TAF7), mRNA.
	XM_094555	XP_094555	Homo sapiens similar to RIKEN cDNA C130020J04 (LOC167540), mRNA.
	NM_020967	NP_066018	Homo sapiens nuclear receptor coactivator 5 (NCOA5), mRNA.
	006209	NP_006200	Homo sapiens ecdonucleotide pyrophosphatase/phosphodiesterase 2 (autotaxin) (ENPP2), mRNA.
	015934	NP_057018	Homo sapiens nucleolar protein NOP5/NOP58 (NOP5/NOP58), mRNA.
	003170	NP_003161	Homo sapiens suppressor of Ty 6 homolog (S. cerevisiae) (SUPT6H), mRNA.
	005772	NP_005763	Homo sapiens RNA terminal phosphate cyclase-like 1 (RCL1), mRNA.
	063346	XP_063346	Homo sapiens similar to polypyrimidine-tract binding protein (LOC122888), mRNA.
	026126	AAC23476	Homo sapiens heterogeneous nuclear ribonucleoprotein D (HNRPD) gene, complete cds.
	000989	NP_000980	Homo sapiens ribosomal protein L30 (RPL30), mRNA.
	267533	AAF78955	Homo sapiens CUG-binding protein LYQ isoform mRNA, complete cds.
	004491	NP_004482	Homo sapiens glucocorticoid receptor DNA binding factor 1 (GRF1), transcript variant 2, mRNA.
	005336	NP_005327	Homo sapiens high density lipoprotein binding protein (vigilin) (HDLBP), mRNA.
	001970	NP_001961	Homo sapiens eukaryotic translation initiation factor 5A (EIF5A), mRNA.
	XM_062603	XP_062603	Homo sapiens similar to ITBA4 PROTEIN (H. sapiens) (LOC121372), mRNA.
	XM_001524	XP_001524	Homo sapiens similar to TAR DNA-binding protein-43 (TDP-43) (LOC151173), mRNA.
	XM_084392	XP_084392	Homo sapiens region containing tudor; Ras homolog enriched in brain 2 (LOC142966), mRNA.
	NM_014281	NP_055096	Homo sapiens fuse-binding protein-interacting repressor (SIAHBP1), transcript variant 2, mRNA.
	NM_016505	NP_057589	Homo sapiens putative S1 RNA binding domain protein (PS1D), mRNA.
	NM_004600	NP_004591	Homo sapiens Sjogren syndrome antigen A2 (60kDa, ribonucleoprotein autoantigen SS-A/Ro) (SSA2), mRNA.
	NM_003091	NP_003082	Homo sapiens small nuclear ribonucleoprotein polypeptides B and B1 (SNRBP), transcript variant 2, mRNA.
	NM_006862	NP_006853	Homo sapiens tudor and KH domain containing (TDRKH), mRNA.
	NM_015156	NP_055971	Homo sapiens REST corepressor (RCOR), mRNA.

Figure 22 (i)

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
NM_018387	NP_060857	Homo sapiens spermatid perinuclear RNA binding protein (STRBP), mRNA.	
NM_003787	NP_003778	Homo sapiens nucleolar protein 4 (NOL4), mRNA.	
NM_001356	NP_001347	Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked (DDX3X), transcript variant 2, mRNA.	
NM_012330	NP_036462	Homo sapiens MYST histone acetyltransferase (monocytic leukemia) 4 (MYST4), mRNA.	
NM_007367	NP_031393	Homo sapiens RNA binding protein (autoantigenic, hnRNP-associated with lethal yellow) (RALY), transcript variant 2, mRNA.	
NM_005548	NP_005539	Homo sapiens lysyl-tRNA synthetase (KARS), mRNA.	
NM_001436	NP_001427	Homo sapiens fibrillarin (FBL), mRNA.	
NM_012279	NP_036411	Homo sapiens double-stranded RNA-binding zinc finger protein JAZ (JAZ), mRNA.	
NM_002296	NP_002287	Homo sapiens lamin B receptor (LBR), transcript variant 1, mRNA.	
NM_001071	NP_001062	Homo sapiens thymidylate synthetase (TYMS), mRNA.	
XM_062601	XP_062601	Homo sapiens similar to RBM1 (LOC121365), mRNA.	
NM_000982	NP_000973	Homo sapiens ribosomal protein L21 (RPL21), mRNA.	
_058819	XP_058819	Homo sapiens musashi homolog 2 (Drosophila) (MSI2), mRNA.	
_084625	XP_084625	Homo sapiens similar to coactivator activator (LOC143763), mRNA.	
_000971	NP_000962	Homo sapiens ribosomal protein L7 (RPL7), mRNA.	
_049523	AAC27501	Homo sapiens huntingtin-interacting protein HYPAFBP11 (HYPA) mRNA, partial cds.	
_000990	NP_000981	Homo sapiens ribosomal protein L27a (RPL27A), mRNA.	
_001031	NP_001022	Homo sapiens ribosomal protein S28 (RPS28), mRNA.	
_001021	NP_001012	Homo sapiens ribosomal protein S17 (RPS17), mRNA.	
_017993	NP_060463	Homo sapiens hypothetical protein FLJ10094 (FLJ10094), mRNA.	
_003651	NP_003642	Homo sapiens cold shock domain protein A (CSDA), mRNA.	
_001714	NP_001705	Homo sapiens Bicaudal D homolog 1 (Drosophila) (BICD1), mRNA.	
_033360	NP_203524	Homo sapiens v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog (KRAS2), transcript variant a, mRNA.	
L13848	AAB48855	Human RNA helicase A mRNA, complete cds.	
BC004154	AAH04154	Homo sapiens nuclear receptor subfamily 2, group F, member 1, mRNA (cDNA clone MGC:2388 IMAGE:2824138), complete cds.	
NM_016304	NP_057388	Homo sapiens chromosome 15 open reading frame 15 (C15orf15), mRNA.	
NM_022551	NP_072045	Homo sapiens ribosomal protein S18 (RPS18), mRNA.	
NM_003244	NP_003235	Homo sapiens TGF-beta-induced factor (TGF-beta family homeobox) (TGIF), transcript variant 4, mRNA.	
NM_003095	NP_003086	Homo sapiens small nuclear ribonucleoprotein polypeptide F (SNRPF), mRNA.	
NM_003017	NP_003008	Homo sapiens splicing factor, arginine/serine-rich 3 (SFRS3), mRNA.	
NM_033246	NP_150249	Homo sapiens promyelocytic leukemia (PML), transcript variant 7, mRNA.	
NM_003754	NP_003745	Homo sapiens eukaryotic translation initiation factor 3, subunit 5 epsilon, 47kDa (EIF3S5), mRNA.	

Figure 22 (2)

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
XM_012968	LOC151921	XP_012968	Homo sapiens similar to chromosome 20 open reading frame 14; putative mitochondrial outer membrane protein import receptor; similar to yeast pre-mRNA splicing factors, Prp17Zer and Prp8 (LOC151921), mRNA.
NM_004593	SFRS10	NP_004584	Homo sapiens splicing factor, arginine/serine-rich 10 (transformer 2 homolog, Drosophila) (SFRS10), mRNA.
NM_017489	TERF1	NP_059523	Homo sapiens telomeric repeat binding factor (NIMA-interacting) 1 (TERF1), transcript variant 1, mRNA.
NM_020143	LOC56902	NP_064528	Homo sapiens putative 28 kDa protein (LOC56902), mRNA.
XM_067072	LOC140098	XP_067072	Homo sapiens similar to RBM1 (LOC140098), mRNA.
XM_059656	LOC133522	XP_059656	Homo sapiens similar to PGC-1 related co-activator (LOC133522), mRNA.
X99302	pop1	CAA67684	H. sapiens mRNA for Pop1 protein.
AL080063	DKFZp564105 ²	CAB45694	Homo sapiens mRNA; cDNA DKFZp5641052 (from clone DKFZp5641052).
NM_006112	PPIE	NP_006103	Homo sapiens peptidylprolyl isomerase E (cyclophilin E) (PPIE), transcript variant 1, mRNA.
_005826	HNRPR	NP_005817	Homo sapiens heterogeneous nuclear ribonucleoprotein R (HNRPR), mRNA.
_003819	PABPC4	NP_003810	Homo sapiens poly(A) binding protein, cytoplasmic 4 (inducible form) (PABPC4), mRNA.
_003690	PRKRA	NP_003681	Homo sapiens protein kinase, interferon-inducible double stranded RNA dependent activator (PRKRA), mRNA.
_001488	TADA2L	NP_001479	Homo sapiens transcriptional adaptor 2 (ADA2 homolog, yeast)-like (TADA2L), transcript variant 1, mRNA.
_058653	LOC122651	XP_058653	Homo sapiens LOC122651 (LOC122651), mRNA.
_004953	EIF4G1	NP_004944	Homo sapiens eukaryotic translation initiation factor 4 gamma, 1 (EIF4G1), transcript variant 5, mRNA.
_088868	LOC163412	XP_088868	Homo sapiens LOC163412 (LOC163412), mRNA.
_021038	MBNL1	NP_066368	Homo sapiens muscleblind-like (Drosophila) (MBNL1), mRNA.
_017736	FLJ20274	NP_060206	Homo sapiens hypothetical protein FLJ20274 (FLJ20274), mRNA.
NM_006451	PAIP1	NP_006442	Homo sapiens poly(A) binding protein interacting protein 1 (PAIP1), transcript variant 1, mRNA.
NM_004501	HNRPU	NP_004492	Homo sapiens heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A) (HNRPU), transcript variant 2, mRNA.
NM_001412	EIF1A	NP_001403	Homo sapiens eukaryotic translation initiation factor 1A (EIF1A), mRNA.
AB014564	KIAA0664	BAA31639	Homo sapiens mRNA for KIAA0664 protein, partial cds.
D80007	KIAA0185	BAA11502	Homo sapiens KIAA0185 mRNA, complete cds.
NM_004184	WARS	NP_004175	Homo sapiens tryptophanyl-tRNA synthetase (WARS), mRNA.
NM_019038	TDRD4	NP_061911	Homo sapiens tudor domain containing 4 (TDRD4), mRNA.
NM_030621	DICER1	NP_085124	Homo sapiens Dicer1, Dcr-1 homolog (Drosophila) (DICER1), transcript variant 2, mRNA.
AF167570		AAD51099	Homo sapiens nuclear factor associated with dsRNA NFAR-2 mRNA, complete cds.
NM_005872	BCAS2	NP_005863	Homo sapiens breast carcinoma amplified sequence 2 (BCAS2), mRNA.

Figure 22 (3)

Gene Symbol		Nucleotide Sequence Description	
GenBank Accession for mRNA	GenBank Accession for Protein		
D82351	BAA11561	Human retropseudogene MSSP-1 DNA, complete cds.	
NM_004990	NP_004981	Homo sapiens methionine-tRNA synthetase (MARS), mRNA.	
NM_006842	NP_006833	Homo sapiens splicing factor 3b, subunit 2, 145kD (SF3B2), mRNA	
NM_017840	NP_060310	Homo sapiens mitochondrial ribosomal protein L16 (MRPL16), nuclear gene encoding mitochondrial protein, mRNA	

Figure 22(4)

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Description
AB000280	PHT1	BAA20489	Rattus norvegicus mRNA for peptide/histidine transporter, complete cds.
AB011679		BAA32736	Rattus norvegicus mRNA for class I beta-tubulin, complete cds.
AB017265		BAA82585	Rattus norvegicus gene for glycosylphosphatidylinositol anchor attachment 1 (GPAA1), partial cds.
AB018253		BAA76556	Rattus norvegicus mRNA for voltage-gated ca channel, complete cds.
AB045586	cnr5	BAB61764	Rattus norvegicus cnr5 mRNA for cadherin-related neuronal receptor 5, partial cds.
AB047324	TAT1	BAB55595	Rattus norvegicus TAT1 mRNA, complete cds.
AB054997		BAB62175	Rattus norvegicus mRNA for QKI, partial cds.
AF003187		AAB80895	Rattus norvegicus cocaine attenuated zinc-finger protein mRNA, partial cds.
AF022089		AAB82556	Rattus norvegicus guanine nucleotide binding protein gamma 4 subunit mRNA, partial cds.
AF022091		AAB82558	Rattus norvegicus guanine nucleotide binding protein gamma 12 subunit mRNA, partial cds.
AF028604	P2X2	AAC72286	Rattus norvegicus P2X2 purinoceptor isoform 1 (P2X2) mRNA, partial cds.
AF035952	Krp3a	AAB88700	Rattus norvegicus kinesin-related protein 3A (Krp3a) mRNA, partial cds.
AF050159	IRS-2	AAC05512	Rattus norvegicus insulin receptor substrate 2 (IRS-2) mRNA, partial cds.
AF061443	LGR4	AAC77910	Rattus norvegicus G protein-coupled receptor LGR4 (LGR4) mRNA, complete cds.
AF079162	ptc	AAC93398	Rattus norvegicus patched (ptc) mRNA, partial cds.
AF083418	IRS-2	AAC33346	Rattus norvegicus insulin receptor substrate-2 (IRS-2) mRNA, partial cds.
AF087674	IRS-2	AAC36726	Rattus norvegicus insulin receptor substrate 2 (IRS-2) mRNA, partial cds.
AF102262	beta1-4GT	AAD41721	Rattus norvegicus N-acetylglucosamine galactosyltransferase (beta1-4GT) mRNA, partial cds.
AF109644	CAR1	AAF01255	Rattus norvegicus coxsackie-adenovirus-receptor homolog (CAR1) mRNA, partial cds.
AF130341	MT1	AAG18471	Rattus norvegicus melatonin receptor (MT1) mRNA, partial cds.
AF136231		AAD33684	Rattus norvegicus caspase-2 mRNA, complete cds.
AF148323	APPILS	AAF73106	Rattus norvegicus aminopeptidase PILS (APPILS) mRNA, complete cds.
AF159049		AAF80364	Rattus norvegicus angiotensin II type 1A receptor associated protein mRNA, complete cds.
AF186469	TM6P1	AAF01324	Rattus norvegicus TM6P1 (TM6P1) mRNA, complete cds.
AF189261	Theta	AAF70382	Rattus norvegicus GABA-A receptor theta subunit (Theta) mRNA, partial cds.

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Description
AF195045		AAF28720	Rattus norvegicus TRC8 gene, partial cds.
AF200359	Uggt	AAF67072	Rattus norvegicus UDP-glucose glycoprotein:glucosyltransferase precursor (Uggt) mRNA, complete cds.
AF228043		AAF76422	Rattus norvegicus nuclear hormone receptor co-regulator/co-activator mRNA, partial cds.
AF239219	Pgl2	AAK15063	Rattus norvegicus prostaglandin transporter subtype 2 (Pgl2) mRNA, complete cds.
AF244920		AAF44715	Rattus norvegicus potassium channel regulatory factor mRNA, complete cds.
AF260582		AAK49395	Rattus norvegicus hippygratin mRNA, complete cds.
AF268030		AAF72546	Rattus norvegicus copper transporter 1 mRNA, complete cds.
AF273024		AAF81786	Rattus norvegicus amino acid system A transporter mRNA, complete cds.
AF352172		AAK32708	Rattus norvegicus v-rai murine sarcoma viral oncogene B1-like protein mRNA, partial cds.
AF361239		AAK67316	Rattus norvegicus lysosomal amino acid transporter 1 mRNA, complete cds.
AF385409	Elf5a2	AAL40650	Rattus norvegicus eukaryotic translation initiation factor 5A isoform II (Elf5a2) gene, exons 2 and 3 and partial cds.
AF385833		AAK66567	Rattus norvegicus RAC1 mRNA, partial cds.
AF406814		AAK96221	Rattus norvegicus clone PLRR-4 polymorphic leucine-rich repeat protein mRNA, complete cds.
AF439397	Sip30	AAL35221	Rattus norvegicus SNAP25 interacting protein 30 (Sip30) mRNA, complete cds.
AF441118	Bnip3l	AAL32462	Rattus norvegicus BNIP3L protein (Bnip3l) mRNA, complete cds.
AF442357		AAL35353	Rattus norvegicus reiculon 3 protein isoform a mRNA, complete cds; alternatively spliced.
AJ131111	LANCL1	CAB63943	Rattus sp. mRNA lanthionine synthetase C-like protein 1 (LANCL1 gene).
AJ224156		CAA11853	Rattus norvegicus mRNA for ceramide glucosyltransferase.
AJ243395	scr3b	CAB76838	Rattus norvegicus mRNA for voltage-gated sodium channel beta-3 subunit.
AY012054	Zfx	AAG38797	Rattus norvegicus zinc finger protein ZFX (Zfx) gene, partial cds.
D14418	PP2A ARa	BAA21903	Rattus norvegicus PP2A ARa mRNA for A regulatory subunit of protein phosphatase 2A, partial cds.
D16479	RTP-beta	BAA03940	Rat mRNA for mitochondrial long-chain 3-ketacyl-CoA thiolase beta-subunit of mitochondrial trifunctional protein, complete cds.
D17521	CIC-3	BAA04471	Rattus rattus CIC-3 mRNA for protein kinase C-regulated chloride channel, complete cds.

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description
D25233		BA004958		Rattus norvegicus mRNA for retinoblastoma protein, partial sequence.
J02934		AAA41856		Rat cAMP-dependent protein kinase type II regulatory subunit mRNA, 3' end.
J04963		AAA41104		Rat ecto-ATPase mRNA, complete cds.
L09752	VIN1	AAA41010		Rat cyclin D2 (VIN1) mRNA, complete cds.
L10639	ActRII	AAA40674		Rat activin type II receptor (ActRII) mRNA, 5' end of cds.
L12382		AAA40687		Rattus norvegicus ADP-ribosylation factor 3 mRNA, complete cds.
L22761	GATA-GT2	AAA416159		Rat DNA binding protein (GATA-GT2) mRNA, complete cds.
M18331		AAA41872		Rat protein kinase C epsilon subspecies.
M18769		AAA41196		Rat liver beta-galactoside alpha 2,6-sialyltransferase mRNA, complete cds.
M19042		AAA41626		Rat proviral Moloney murine leukemia mutant in594-2 DNA, partial cds.
M24353		AAA66457		Rattus norvegicus alpha-mannosidase II mRNA, partial cds.
M32973		AAA41639		Rat mitochondrial solute carrier protein mRNA, 5' end.
M34083		AAA79273		Rat lactogen receptor mRNA, complete cds.
M35965		AAA42089		Rat thyroglobulin (rTg-2) mRNA, complete cds.
M55292	ItkB	AAA42280		Rat neural receptor protein-tyrosine kinase (ItkB) mRNA, complete cds.
NM_012506	Alp1a3	NP_036638		Rattus norvegicus ATPase, Na+/K+ transporting, alpha 3 polypeptide (Alp1a3), mRNA.
NM_012551	Egr1	NP_036683		Rattus norvegicus early growth response 1 (Egr1), mRNA.
NM_012563	Gad2	NP_036695		Rattus norvegicus glutamate decarboxylase 2 (Gad2), mRNA.
NM_012569	Gls	NP_036701		Rattus norvegicus glutaminase (Gls), mRNA.
NM_012609	Nf1	NP_036741		Rattus norvegicus neurofibromatosis 1 (Nf1), mRNA.
NM_012637	Ptpn1	NP_036769		Rattus norvegicus protein tyrosine phosphatase, non-receptor type 1 (Ptpn1), mRNA.
NM_012649	Sdc4	NP_036781		Rattus norvegicus syndecan 4 (Sdc4), mRNA.
NM_012655	Sp1	NP_036787		Rattus norvegicus Sp1 transcription factor (Sp1), mRNA.
NM_012663	Vamp2	NP_036795		Rattus norvegicus vesicle-associated membrane protein 2 (Vamp2), mRNA.
NM_012713	Prkcb1	NP_036845		Rattus norvegicus protein kinase C, beta 1 (Prkcb1), mRNA.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Description
NM_012794	Glycam1	NP_036926	Rattus norvegicus glycosylation dependent cell adhesion molecule 1 (Glycam1), mRNA.
NM_012799	Nimbr	NP_036931	Rattus norvegicus neuromedin B receptor (Nimbr), mRNA.
NM_012806	Mapk10	NP_036938	Rattus norvegicus mitogen activated protein kinase 10 (Mapk10), mRNA.
NM_012836	Cpd	NP_036968	Rattus norvegicus carboxypeptidase D (Cpd), mRNA.
NM_012863	Mist1	NP_036995	Rattus norvegicus muscle, intestine and stomach expression 1 (Mist1), mRNA.
NM_012879	Sic2a2	NP_037011	Rattus norvegicus solute carrier family 2, member 2 (Sic2a2), mRNA.
NM_012919	Caenazd1	NP_037051	Rattus norvegicus calcium channel, voltage-dependent, alpha2/delta subunit 1 (Caenazd1), mRNA.
NM_012948	Emd	NP_037080	Rattus norvegicus emerin (Emd), mRNA.
NM_012998	P4hb	NP_037130	Rattus norvegicus prolyl 4-hydroxylase, beta polypeptide (P4hb), mRNA.
NM_013029	Sial8c	NP_037161	Rattus norvegicus sialyltransferase 8 C (Sial8c), mRNA.
NM_013038	Sbtp1	NP_037170	Rattus norvegicus syntaxin binding protein 1 (Sbtp1), mRNA.
NM_013080	Ptpz1	NP_037212	Rattus norvegicus protein tyrosine phosphatase, receptor-type, Z polypeptide 1 (Ptpz1), mRNA.
NM_013087	Cd81	NP_037219	Rattus norvegicus CD 81 antigen (Cd81), mRNA.
NM_013123	Il1r1	NP_037255	Rattus norvegicus interleukin 1 receptor, type I (Il1r1), mRNA.
NM_013159	Idc	NP_037291	Rattus norvegicus insulin degrading enzyme (Idc), mRNA.
NM_013181	Ptkar1a	NP_037313	Rattus norvegicus protein kinase, cAMP dependent regulatory, type I, alpha (Ptkar1a), mRNA.
NM_016999	Cyp4b1	NP_058695	Rattus norvegicus cytochrome P450, subfamily 4B, polypeptide 1 (Cyp4b1), mRNA.
NM_017065	Gabrb3	NP_058761	Rattus norvegicus gamma-aminobutyric acid receptor, subunit beta 3 (Gabrb3), mRNA.
NM_017091	Pcsk1	NP_058787	Rattus norvegicus proprotein convertase subtilisin/kexin type 1 (Pcsk1), mRNA.
NM_017135	Ak4	NP_058831	Rattus norvegicus adenylate kinase 4 (Ak4), mRNA.
NM_017197	Cugbp2	NP_058893	Rattus norvegicus CUG triplet repeat, RNA-binding protein 2 (Cugbp2), mRNA.
NM_017206	Sic8a6	NP_058902	Rattus norvegicus solute carrier family 6, member 6 (Sic8a6), mRNA.
NM_017231	Pitpn	NP_058927	Rattus norvegicus phosphatidylinositol transfer protein (Pitpn), mRNA.
NM_017269	Ptpn7	NP_058965	Rattus norvegicus protein tyrosine phosphatase, receptor type, J (Ptpn7), mRNA.
NM_017322	Mapk9	NP_059018	Rattus norvegicus stress activated protein kinase alpha II (Mapk9), mRNA.

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Description
NM_017323	Tr4	NP_059019	Rattus norvegicus TR4 orphan receptor (Tr4), mRNA.
NM_017348	CHOT1	NP_059044	Rattus norvegicus choline transporter (CHOT1), mRNA.
NM_019142	Prkaa1	NP_062015	Rattus norvegicus protein kinase, AMP-activated, alpha 1 catalytic subunit (Prkaa1), mRNA.
NM_019166	Syngt1	NP_062039	Rattus norvegicus synaptophysin 1 (Syngt1), mRNA.
NM_019182	Rnf4	NP_062055	Rattus norvegicus ring finger protein 4 (Rnf4), mRNA.
NM_019192	Sepp1	NP_062065	Rattus norvegicus selenoprotein P, plasma, 1 (Sepp1), mRNA.
NM_019195	Cd47	NP_062068	Rattus norvegicus integrin-associated protein (Cd47), mRNA.
NM_019248	Ntrk3	NP_062121	Rattus norvegicus neural receptor protein-tyrosine kinase (Ntrk3), mRNA.
NM_019275	Madh4	NP_062148	Rattus norvegicus MAD homolog 4 (Drosophila) (Madh4), mRNA.
NM_019354	Ucp2	NP_062227	Rattus norvegicus uncoupling protein 2 (Ucp2), mRNA.
NM_019367	Ppt2	NP_062240	Rattus norvegicus palmitoyl-protein thioesterase 2 (Ppt2), mRNA.
NM_019377	Ywhab	NP_062250	Rattus norvegicus tyrosine 3-monooxygenase/tryptophan 5 monooxygenase activation protein, beta polypeptide (Ywhab), mRNA.
NM_021594	LOC59114	NP_067605	Rattus norvegicus ERM-binding phosphoprotein (LOC59114), mRNA.
NM_021597	Gerp95	NP_067608	Rattus norvegicus GERP95 (Gerp95), mRNA.
NM_021671	LOC59303	NP_067703	Rattus norvegicus db83 (LOC59303), mRNA.
NM_021680	Nxph4	NP_067712	Rattus norvegicus neurexophilin 4 (Nxph4), mRNA.
NM_021682	LOC59318	NP_067714	Rattus norvegicus kilon (LOC59318), mRNA.
NM_021851	Lin7c	NP_068623	Rattus norvegicus lin-7-C (Lin7c), mRNA.
NM_022005	Fxyd6	NP_071288	Rattus norvegicus FXYD domain-containing ion transport regulator 6 (Fxyd6), mRNA.
NM_022208	Gtf2a1	NP_071544	Rattus norvegicus general transcription factor 2a, 1 (Gtf2a1), mRNA.
NM_022223	Fgf14	NP_071559	Rattus norvegicus fibroblast growth factor 14 (Fgf14), mRNA.
NM_022231	Birc4	NP_071567	Rattus norvegicus baculoviral IAP repeat-containing 4 (Birc4), mRNA.
NM_022386	Matg	NP_071781	Rattus norvegicus v-maf musculoaponeurotic fibrosarcoma (avian) oncogene family, protein G (Matg), mRNA.

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description
		GeneBank Accession Number or Manufacturer Sequence Reference	Manufacturer Probe Name	
NM_022387	Pafah1b2	NP_071782		Rattus norvegicus platelet-activating factor acetylhydrolase alpha 2 subunit (PAF-AH alpha 2) (Pafah1b2), mRNA.
NM_022396	Gng11	NP_071791		Rattus norvegicus guanine nucleotide binding protein gamma subunit 11 (Gng11), mRNA.
NM_022502	Ppt	NP_071947		Rattus norvegicus palmitoyl-protein thioesterase (Ppt), mRNA.
NM_022516	Ptb	NP_071961		Rattus norvegicus polypyrimidine tract binding protein (Ptb), mRNA.
NM_022522	Casp2	NP_071967		Rattus norvegicus caspase 2 (Casp2), mRNA.
NM_022548	PAG608	NP_071993		Rattus norvegicus p53-activated gene 608 (PAG608), mRNA.
A_022612	Bcl2l11	NP_072134		Rattus norvegicus BCL2-like 11 (apoptosis facilitator) (Bcl2l11), transcript variant 1, mRNA.
A_022619	Slc7a2	NP_072141		Rattus norvegicus solute carrier family 7, member 3 (Slc7a2), mRNA.
A_022673	Meep2	NP_073164		Rattus norvegicus methyl CpG binding protein 2 (Meep2), mRNA.
A_022789	Nucks	NP_073636		Rattus norvegicus nuclear ubiquitous casein kinase 2 (Nucks), mRNA.
A_022931	Nim3	NP_075220		Rattus norvegicus nim3 protein (Nim3), mRNA.
VL_022950	C1gal11	NP_075239		Rattus norvegicus core1 UDP-galactose:N-acetylgalactosamine-alpha-R beta 1,3-galactosyltransferase (C1gal11) (C1gal11), mRNA.
M_023095	Mgal5	NP_075583		Rattus norvegicus N-acetylglucosaminyltransferase V (Mgal5), mRNA.
M_023956	Gucy1a2	NP_076446		Rattus norvegicus soluble guanylyl cyclase alpha2 subunit (Gucy1a2), mRNA.
..M_023977	Gmx33	NP_076467		Rattus norvegicus trans-Golgi protein Gmx33 (Gmx33), mRNA.
NM_023991	Prkaa2	NP_076481		Rattus norvegicus protein kinase, AMP-activated, alpha 2 catalytic subunit (Prkaa2), mRNA.
NM_024132	Faah	NP_077046		Rattus norvegicus fatty acid amide hydrolase (Faah), mRNA.
NM_024139	Chp	NP_077053		Rattus norvegicus calcium binding protein p22 (Chp), mRNA.
NM_024158	Dck	NP_077072		Rattus norvegicus deoxycytidine kinase (Dck), mRNA.
NM_024368	Frk	NP_077344		Rattus norvegicus src related tyrosine kinase (Frk), mRNA.
NM_024370	Gabrg3	NP_077346		Rattus norvegicus GABA-alpha receptor gamma-3 subunit (Gabrg3), mRNA.
NM_024374	Mltn	NP_077350		Rattus norvegicus myotrophin (Mltn), mRNA.
NM_030586	omb5	NP_085075		Rattus norvegicus cytochrome b5, outer mitochondrial membrane isoform (omb5), mRNA.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Description
NM_030829	Gprk5	NP_110456	Rattus norvegicus G protein-coupled receptor kinase 5 (Gprk5), mRNA.
NM_030835	RAMP4	NP_110462	Rattus norvegicus ribosome associated membrane protein 4 (RAMP4), mRNA.
NM_030849	Bmpr1a	NP_110476	Rattus norvegicus bone morphogenetic protein receptor, type 1A (Bmpr1a), mRNA.
NM_030873	Pfn2	NP_110500	Rattus norvegicus profilin II (Pfn2), mRNA.
NM_030991	Snap25	NP_112253	Rattus norvegicus synaptosomal-associated protein (Snap25), mRNA.
NM_031011	Amd1	NP_112273	Rattus norvegicus S-adenosylmethionine decarboxylase 1 (Amd1), mRNA.
NM_031031	Gatm	NP_112293	Rattus norvegicus glycine amidinotransferase (L-arginine:glycine amidinotransferase) (Gatm), mRNA.
NM_031034	Gna12	NP_112296	Rattus norvegicus guanine nucleotide binding protein, alpha 12 (Gna12), mRNA.
NM_031036	Gnaq	NP_112298	Rattus norvegicus heterotrimeric guanine nucleotide-binding protein alpha q subunit (Gnaq), mRNA.
NM_031049	Lss	NP_112311	Rattus norvegicus 2,3-oxidosqualene: lanosterol cyclase (Lss), mRNA.
NM_031057	Mmsdh	NP_112319	Rattus norvegicus methylmalonate semialdehyde dehydrogenase gene (Mmsdh), mRNA.
NM_031061	Musk	NP_112323	Rattus norvegicus muscle, skeletal, receptor tyrosine kinase (Musk), mRNA.
NM_031079	Pde2a	NP_112341	Rattus norvegicus phosphodiesterase 2A, cGMP-stimulated (Pde2a), mRNA.
NM_031081	Pdprk1	NP_112343	Rattus norvegicus 3-phosphoinositide dependent protein kinase-1 (Pdprk1), mRNA.
NM_031120	Ssr3	NP_112382	Rattus norvegicus TRAP-complex gamma subunit (Ssr3), mRNA.
NM_031123	Sitc1	NP_112385	Rattus norvegicus stanniocalcin 1 (Sitc1), mRNA.
NM_031143	Dgkz	NP_112405	Rattus norvegicus diacylglycerol kinase zeta (Dgkz), mRNA.
NM_031152	Rab11a	NP_112414	Rattus norvegicus RAB11a, member RAS oncogene family (Rab11a), mRNA.
NM_031344	Fads2	NP_112634	Rattus norvegicus fatty acid desaturase 2 (Fads2), mRNA.
NM_031346	Rod1	NP_112636	Rattus norvegicus regulator of differentiation (in S. pombe) 1 (Rod1), mRNA.
NM_031515	Kras2	NP_113703	Rattus norvegicus Kirsten rat sarcoma viral oncogene homologue 2 (active) (Kras2), mRNA.
NM_031521	Ncam1	NP_113709	Rattus norvegicus neural cell adhesion molecule 1 (Ncam1), mRNA.
NM_031528	Rara	NP_113716	Rattus norvegicus retinoic acid receptor, alpha (Rara), mRNA.
NM_031575	Akt3	NP_113763	Rattus norvegicus thymoma viral proto-oncogene 3 (Akt3), mRNA.
NM_031593	Sv2c	NP_113781	Rattus norvegicus synaptic vesicle protein 2C (Sv2c), mRNA.

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank		Description
		Accession Number or Manufacturer Sequence Reference		
NM_031604	Alp6n1a	NP_113792		Rattus norvegicus ATPase, H ⁺ transporting, lysosomal noncatalytic accessory protein 1a (Alp6n1a), mRNA.
NM_031605	Cyp4a12	NP_113793		Rattus norvegicus cytochrome P450, 4a12 (Cyp4a12), mRNA.
NM_031615	Znf148	NP_113803		Rattus norvegicus zinc finger protein 148 (Znf148), mRNA.
NM_031726	Scamp5	NP_113914		Rattus norvegicus secretory carrier membrane protein 5 (Scamp5), mRNA.
NM_031751	Shank1	NP_113939		Rattus norvegicus Shank1 (Shank1), mRNA.
NM_031755	Ceacam1	NP_113943		Rattus norvegicus carcinoembryonic antigen-related cell adhesion molecule 1 (Ceacam1), mRNA.
NM_031757	Mmp24	NP_113945		Rattus norvegicus matrix metalloproteinase 24 (membrane-inserted) (Mmp24), mRNA.
NM_031785	Alp6s1	NP_113973		Rattus norvegicus ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump), subunit 1 (Alp6s1), mRNA.
NM_031787	Hipk3	NP_113975		Rattus norvegicus homeodomain-interacting protein kinase 3 (Hipk3), mRNA.
NM_031812	Cd164	NP_114000		Rattus norvegicus CD164 antigen (Cd164), mRNA.
NM_031818	Clic4	NP_114006		Rattus norvegicus chloride intracellular channel 4 (Clic4), mRNA.
NM_031828	Kcnma1	NP_114016		Rattus norvegicus potassium large conductance calcium-activated channel, subfamily M, alpha member 1 (Kcnma1), mRNA.
NM_031841	Scd2	NP_114029		Rattus norvegicus stearoyl-Coenzyme A desaturase 2 (Scd2), mRNA.
NM_031986	Sdcbp	NP_114192		Rattus norvegicus syntenin (Sdcbp), mRNA.
NM_032080	Gsk3b	NP_114469		Rattus norvegicus glycogen synthase kinase 3 beta (Gsk3b), mRNA.
NM_032084	Chn2	NP_114473		Rattus norvegicus chimerin (chimaerin) 2 (Chn2), mRNA.
NM_033376	Kcnk3	NP_203694		Rattus norvegicus potassium channel, subfamily K, member 3 (Kcnk3), mRNA.
NM_052801	Vhl	NP_434688		Rattus norvegicus von Hippel-Lindau syndrome homolog (Vhl), mRNA.
NM_053308	Fkbp2	NP_445760		Rattus norvegicus FK506 binding protein 2 (Fkbp2), mRNA.
NM_053342	Idax	NP_445794		Rattus norvegicus inhibitor of the Dvl and Axin complex (Idax), mRNA.
NM_053352	Rdc1	NP_445804		Rattus norvegicus chemokine orphan receptor 1 (Rdc1), mRNA.
NM_053379	Dcx	NP_445831		Rattus norvegicus doublecortin (Dcx), mRNA.
NM_053407	Asah	NP_445859		Rattus norvegicus N-acylsphingosine amidohydrolase (acid ceramidase) (Asah), mRNA.
NM_053424	Sic4a4	NP_445876		Rattus norvegicus solute carrier family 4, member 4 (Sic4a4), mRNA.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Description
NM_053442	Sic7a8	NP_445894	Rattus norvegicus solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (Sic7a8), mRNA.
NM_053445	Fads1	NP_445897	Rattus norvegicus fatty acid desaturase 1 (Fads1), mRNA.
NM_053465	Fui9	NP_445917	Rattus norvegicus fucosyltransferase 9 (alpha (1,3) fucosyltransferase) (Fui9), mRNA.
NM_053467	Tmp21	NP_445919	Rattus norvegicus integral membrane protein Tmp21-1 (p23) (Tmp21), mRNA.
NM_053472	Cox4b	NP_445924	Rattus norvegicus cytochrome c oxidase, subunit 4b (Cox4b), mRNA.
NM_053486	Kif3c	NP_445938	Rattus norvegicus kinesin family member 3C (Kif3c), mRNA.
NM_053494	Sic2a8	NP_445946	Rattus norvegicus solute carrier family 2, (facilitated glucose transporter) member 8 (Sic2a8), mRNA.
NM_053502	Abcg1	NP_445954	Rattus norvegicus ATP-binding cassette, sub-family G (WHITE), member 1 (Abcg1), mRNA.
NM_053565	Cish3	NP_446017	Rattus norvegicus cytokine inducible SH2-containing protein 3 (Cish3), mRNA.
NM_053578	Atp6k	NP_446030	Rattus norvegicus vacuolar proton-ATPase subunit M9.2 (Atp6k), mRNA.
NM_053589	Rab14	NP_446041	Rattus norvegicus GTPase Rab14 (Rab14), mRNA.
NM_053646	Asah2	NP_446098	Rattus norvegicus N-acylsphingosine amidohydrolase 2 (Asah2), mRNA.
NM_053714	Ank	NP_446166	Rattus norvegicus progressive ankylosis (Ank), mRNA.
NM_053722	Clasp2	NP_446174	Rattus norvegicus CLIP-associating protein 2 (Clasp2), mRNA.
NM_053770	Argbp2	NP_446222	Rattus norvegicus Arg/Abi-interacting protein ArgBP2 (Argbp2), mRNA.
NM_053794	Prkwnk1	NP_446246	Rattus norvegicus protein kinase, lysine deficient 1 (Prkwnk1), mRNA.
NM_053798	Sacm1l	NP_446250	Rattus norvegicus SAC1 (suppressor of actin mutations 1, homolog-like (S. cerevisiae) (Sacm1l), mRNA.
NM_053863	Sic28a1	NP_446315	Rattus norvegicus solute carrier family 28 (sodium-coupled nucleoside transporter), member 1 (Sic28a1), mRNA.
NM_053886	Lman1	NP_446338	Rattus norvegicus lectin, mannose-binding, 1 (Lman1), mRNA.
NM_053891	Cdk5r	NP_446343	Rattus norvegicus cyclin-dependent kinase 5, regulatory subunit 1 (p35) (Cdk5r), mRNA.
NM_053952	Nup155	NP_446404	Rattus norvegicus nucleoporin 155kD (Nup155), mRNA.
NM_054000	Kcnb2	NP_446452	Rattus norvegicus potassium voltage gated channel, Shab-related subfamily, member 2 (Kcnb2), mRNA.
NM_057098	Tcea2	NP_476439	Rattus norvegicus transcription elongation factor A2 (Tcea2), mRNA.

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description
NM_057132	Aha2	NP_476473		Rattus norvegicus p13ras-related homolog A2 (Aha2), mRNA.
NM_057148	2-Sep	NP_476489		Rattus norvegicus septin 2 (Sept2), mRNA.
NM_057186	Hadhsc	NP_476534		Rattus norvegicus L-3-hydroxyacyl-Coenzyme A dehydrogenase, short chain (Hadhsc), mRNA.
NM_057210	Sv2a	NP_476558		Rattus norvegicus synaptic vesicle glycoprotein 2 a (Sv2a), mRNA.
NM_080577	Npl4	NP_542144		Rattus norvegicus homolog of yeast nuclear protein localization 4 (Npl4), mRNA.
S61973	AGR9	AAB20211		Rattus sp. NMDA receptor glutamate-binding subunit mRNA, complete cds.
S73608	rap1B	AAB31153		AGR9=G protein-coupled receptor [rats, aortic vascular smooth muscle cells, mRNA, 1601 nt].
U07795		AAA92787		Rattus norvegicus Rap1B mRNA, complete cds.
U15408		AAA81005		Rattus norvegicus plasma membrane Ca ²⁺ -ATPase isoform 4 mRNA, complete cds and alternatively spliced variations.
U21116		AAA96350		Rattus norvegicus rSec1B mRNA, complete cds.
U31815	ROB2	AAA89157		Rattus norvegicus calcium channel alpha-1C subunit (ROB2) mRNA, partial cds.
U39572		AAD10400		Rattus norvegicus phosphatidylinositol 4-kinase mRNA, complete cds.
U40188	DN-7	AAC53201		Rattus norvegicus neuronal cell death related gene in neuron -7 (DN-7) mRNA, complete cds.
U41183	GHRH	AAC53041		Rattus norvegicus placental pre-progrowth hormone-releasing hormone (GHRH) mRNA, complete cds.
U41853	ORP150	AAB05672		Rattus norvegicus 150 kDa oxygen regulated protein (ORP150) mRNA, complete cds.
U53927		AAC52813		Rattus norvegicus brain astroglial high-affinity cationic amino acid transporter RCAT2 mRNA, partial cds.
U56261		AAA99825		Rattus norvegicus SNAP-25a mRNA, partial cds.
U61772	NF2	AAC13318		Rattus norvegicus merlin (NF2) mRNA, partial cds.
U67995		AAB39620		Rattus norvegicus stearyl-CoA desaturase 2 mRNA, partial cds.
U76997		AAB19066		Rattus norvegicus insulin-regulated membrane aminopeptidase (RAP) mRNA, complete cds.
U77583	CK1aL	AAB19228		Rattus norvegicus casein kinase I alpha L (CK1aL) mRNA, complete cds.
U78090		AAC34249		Rattus norvegicus potassium channel regulator 1 mRNA, complete cds.
U78116	AZF5	AAB36788		Rattus norvegicus zinc finger protein 5 (AZF5) mRNA, partial cds.
U90215		AAB49989		Rattus norvegicus polysialyltransferase mRNA, partial cds.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Description
X05472	ORF 3	CAA29033	Rat 2.4 kb repeat DNA right terminal region.
X53261		CAA37350	R.norvegicus mRNA for protein kinase A catalytic subunit.
X56747		CAA40069	Rat mRNA for fetal intestinal lactase-phlorizin hydrolase precursor, partial.
X60370		CAC16162	R.norvegicus mRNA for microtubule associated protein 1B.
X60790	PYBP2	CAA43203	Rat PYBP2 mRNA for pyrimidine binding protein 2.
X64600	Ign41	CAA45884	R.norvegicus mRNA for the trans Golgi network specific integral membrane protein TGN41.
X80029	hem2	CAA56333	R.norvegicus Hem-2 mRNA.
X89963	TSP-4	CAA62002	R.norvegicus mRNA TSP-4 protein.
Y13336	DAD-1	CAA73780	Rattus norvegicus DAD-1 gene.
Y16774	Dri 27/ZnT4	CAA76372	Rattus norvegicus mRNA for Dri 27/ZnT4 protein, complete CDS.
Z18877		CAA79317	R.norvegicus mRNA for 2'5' oligoadenylate synthetase.
Z21935		CAA79929	R.norvegicus protein kinase rMNK2.
NM_023986	Temo	NP_076476	Rattus norvegicus TEMO (Temo), mRNA.
RATTUS00016	mwgrat10K#6143	u10860	u10860_1 guanosine 5'-monophosphate synthetase - homo sapiens expression: heart strains: sprague_dawley wistar_kyoto gbp
RATTUS00092	mwgrat10K#6206	bc014875	bc014875_1 unknown protein for mgc:6920 - mus musculus expression: liver heart brain kidney strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS00129	mwgrat10K#6238	q9hcc0	non-biotin containing subunit of 3-methylcrotonyl-coa carboxylase ec 6.4.1.4 expression: heart kidney strains: shrsp wistar_kyoto trembl
RATTUS00221	mwgrat10K#6320	bc003290	bc003290_1 cyclin i - mus musculus expression: kidney brain heart strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS00223	mwgrat10K#6321	q9p10	pro1038 expression: liver heart kidney strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS00276	mwgrat10K#8728	q9qz87	oda-8s protein; kidney expression: brain heart strains: sprague_dawley wistar_kyoto trembl
RATTUS00284	mwgrat10K#6373	ak008492	ak008492_1 riken full-length enriched library, clone:2010300721 - mus musculus; heart kidney shrsp trembl o75319 pir1 ec 3.1.3.41 expression: brain strains: wistar_kyoto gbp

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Description
RATTUS00285	mwgrat10K#6374	af411608	af411608_1 n4wbp5a nedd4 ww domain-binding protein 5a - mus musculus expression: liver heart brain strains: shrsp sprague_dawley wistar_kyoto gbp	shrsp
RATTUS00379	mwgrat10K#6453	q9gz0	hypothetical 27.1 kda protein cdna flj12619 fis, clone nt2rm4001882 expression: liver brain heart strains: sprague_dawley wistar_kyoto trembl	shrsp
RATTUS00410	mwgrat10K#6481	bc006847	bc006847_1 niken cdna 061001317 gene - mus musculus expression: liver heart strains: shrsp sprague_dawley wistar_kyoto gbp	shrsp
RATTUS00415	mwgrat10K#6485	q9wvd5	omithine transporter expression: liver heart kidney strains: shrsp sprague_dawley wistar_kyoto trembl	shrsp
RATTUS00434	mwgrat10K#6501	q9h3n4	cisplatin resistance related protein cr9p expression: brain heart strains: shrsp sprague_dawley wistar_kyoto trembl	shrsp
RATTUS00437	mwgrat10K#6503	bc014808	bc014808_1 proline rich protein expressed in brain - mus musculus expression: liver heart brain kidney strains: shrsp sprague_dawley wistar_kyoto gbp	shrsp
RATTUS00451	mwgrat10K#6516	q9han2	pumilio 2; heart wistar_kyoto trembl q9erc7 expression: liver brain strains: shrsp sprague_dawley trembl	shrsp
RATTUS00521	mwgrat10K#6575	ak009646	ak009646_1 niken full-length enriched library, clone:2310036d22 - mus musculus expression: liver heart brain strains: shrsp wistar_kyoto gbp	shrsp
RATTUS00525	mwgrat10K#6579	af237619	af237619_1 dual specificity phosphatase ts-dsp2 - mus musculus expression: heart strains: shrsp wistar_kyoto gbp	shrsp
RATTUS00526	mwgrat10K#6580	ak009743	ak009743_1 niken full-length enriched library, clone:2310042b03 - mus musculus expression: heart brain strains: shrsp sprague_dawley wistar_kyoto gbp	shrsp
RATTUS00530	mwgrat10K#6584	q9nzj7	mitochondrial carrier homolog 1 isoform b expression: brain kidney strains: shrsp trembl	shrsp
RATTUS00553	mwgrat10K#6606	q9h5j2	cdna: flj23389 fis, clone hep17027 expression: heart brain strains: sprague_dawley wistar_kyoto trembl	shrsp
RATTUS00575	mwgrat10K#6624	q9jk95	p53 apoptosis-associated target expression: liver kidney heart strains: shrsp sprague_dawley wistar_kyoto trembl	shrsp
RATTUS00704	mwgrat10K#6738	bc010856	bc010856_1 unknown protein for mgc:9160 - homo sapiens expression: brain strains: sprague_dawley wistar_kyoto gbp	shrsp

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Description
RATTUS00794	mwgrat10K#6816	ak007459	ak007469_1 riken full-length enriched library, clone:1810013b01 - mus musculus expression: liver brain kidney strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS00848	mwgrat10K#6864	x61585	x61585_1 polynucleotide adenylyltransferase - bos taurus expression: liver heart kidney strains: shrsp wistar_kyoto gbp
RATTUS00867	mwgrat10K#6879	o95205	zinc finger protein expression: brain strains: shrsp sprague_dawley trembl
RATTUS00868	mwgrat10K#6880	bc006778	bc006778_1 unknown protein for image:3589064 - mus musculus expression: brain strains: shrsp sprague_dawley wistar_kyoto g
ATTUS00870	mwgrat10K#6881	q83380	envelope protein expression: liver brain strains: shrsp sprague_dawley wistar_kyoto trembl
ATTUS00904	mwgrat10K#6910	q9p1s0	hdcbb03p fragment expression: brain strains: shrsp wistar_kyoto trembl
ATTUS00937	mwgrat10K#6941	q9ul15	kiaa1265 protein fragment expression: brain strains: sprague_dawley wistar_kyoto trembl
ATTUS01071	mwgrat10K#7054	bc003862	bc003862_1 transmembrane 9 superfamily member 2 - mus musculus expression: liver heart kidney brain strains: shrsp sprague_dawley wistar_kyoto gbp
ATTUS01093	mwgrat10K#7071	q9y6r2	embryonic lung protein expression: liver brain heart strains: shrsp sprague_dawley wistar_kyoto trembl
ATTUS01148	mwgrat10K#7121	l10426	l10426_1 er81 els-related protein - mus musculus expression: brain strains: sprague_dawley wistar_kyoto gbp
ATTUS01170	mwgrat10K#7138	ak020910	ak020910_1 riken full-length enriched library, clone:a930030i01 - mus musculus expression: brain strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS01205	mwgrat10K#7167	ak006207	ak006207_1 riken full-length enriched library, clone:1700021i06 - mus musculus expression: liver heart brain strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS01221	mwgrat10K#7181	aj278133	aj278133_1 erd2.2 putative kdel receptor - mus musculus expression: liver kidney brain strains: shrsp sprague_dawley wistar_kyo gbp
RATTUS01273	mwgrat10K#7225	caa03190	sequence 2 from patent wo9610636 expression: liver brain strains: sprague_dawley wistar_kyoto trembl
RATTUS01287	mwgrat10K#7238	ak011418	ak011418_1 riken full-length enriched library, clone:2610016f14 - mus musculus expression: brain strains: shrsp wistar_kyoto gbp
RATTUS01294	mwgrat10K#7245	q9nvl7	cdna fj10651 fis, clone nt2p2005868 expression: brain strains: shrsp sprague_dawley wistar_kyoto trembl

Figure 23 13

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Description
RATTUS01392	mwgrat10K#7330	ak009373	ak009373_1 riken full-length enriched library, clone:2310015o17 - mus musculus expression: liver brain strains: sprague_dawley wistar_kyoto gbp
RATTUS01404	mwgrat10K#7342	m59288	m59288_1 ferrochelatase - mus musculus expression: liver brain strains: shrsp wistar_kyoto gbp
RATTUS01416	mwgrat10K#7352	af212995	af212995_1 cul4b cullin cul4b - homo sapiens expression: liver strains: wistar_kyoto gbp
RATTUS01422	mwgrat10K#7358	ak005698	ak005698_1 riken full-length enriched library, clone:1700007d05 - mus musculus expression: liver heart strains: sprague_dawley wistar_kyoto gbp
RATTUS01478	mwgrat10K#7409	cab69424	sequence 13 from patent wo9826065 fragment expression: liver brain strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS01526	mwgrat10K#7452	q9wu29	nucleoside diphosphatase ar-udpase expression: liver kidney strains: wistar_kyoto trembl
RATTUS01538	mwgrat10K#7464	bc012401	bc012401_1 unknown protein for mgc:11724 - mus musculus expression: liver brain strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS01590	mwgrat10K#7512	q9h9h1	cdna fj12758 fis, clone nt2p2001295, weakly zinc/cadmium resistance protein expression: liver brain strains: sprague_dawley wistar_kyoto trembl
RATTUS01595	mwgrat10K#7517	bc003454	bc003454_1 riken cdna 1110021n07 gene - mus musculus expression: kidney heart strains: sprague_dawley wistar_kyoto gbp
RATTUS01656	mwgrat10K#7570	q9jk31	alfa-associated factor expression: heart kidney brain strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS01669	mwgrat10K#7583	bc006941	bc006941_1 sphingosine kinase 2 - mus musculus expression: kidney strains: shrsp wistar_kyoto gbp
RATTUS01679	mwgrat10K#7592	ak008666	ak008666_1 riken full-length enriched library, clone:2210008a03 - mus musculus expression: kidney strains: shrsp wistar_kyoto gbp
RATTUS01713	mwgrat10K#7622	q9nqq7	ba394o2.1 cgl-15 protein expression: brain heart kidney strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS01762	mwgrat10K#7667	q9h5w6	cdna: fj22937 fis, clone kat07960 expression: liver brain kidney strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS01834	mwgrat10K#9859	q9jmf6	fragment expression: kidney brain strains: shrsp wistar_kyoto trembl
RATTUS01846	mwgrat10K#7749	ax118871	ax118871_1 homo sapiens sequence 35 from patent wo0129221 unnamed protein product expression: kidney strains: shrsp wistar_kyoto gbp

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Description
RATTUS01802	mwgrat10K#7785	bc003936	bc003936_1 unknown protein for mgc:7327 - mus musculus expression: brain strains: shrsp sprague_dawley gbp
RATTUS02017	mwgrat10K#7912	q9qxm0	alpha/beta hydrolase-2 fold protein expression: liver strains: shrsp sprague_dawley trembl
RATTUS02037	mwgrat10K#7932	bc011313	bc011313_1 unknown protein for mgc:19443 - mus musculus expression: liver brain strains: shrsp sprague_dawley gbp
RATTUS02056	mwgrat10K#7949	q9hc79	serine kinase expression: liver brain strains: shrsp trembl
RATTUS02104	mwgrat10K#7991	aj277386	aj277386_1 p14 late endosomal/lysosomal mp1 interacting protein - mus musculus expression: brain heart strains: shrsp sprague_dawley gbp
RATTUS02120	mwgrat10K#8006	af077188	af077188_1 cul4a cullin 4a - homo sapiens expression: liver brain kidney strains: shrsp sprague_dawley gbp
RATTUS02168	mwgrat10K#8052	ak011126	ak011126_1 riken full-length enriched library, clone:2600001b17 - mus musculus expression: brain heart strains: shrsp sprague_dawley gbp
RATTUS02183	mwgrat10K#8067	o00495	26s proteasome subunit 9 expression: heart brain strains: shrsp sprague_dawley trembl
RATTUS02235	mwgrat10K#8116	x53247	x53247_1 member of ras gene family en-7 protein - mus musculus expression: kidney brain strains: sprague_dawley wistar_kyoto gbp
RATTUS02251	mwgrat10K#8130	cac24865	sequence 3 from patent wo0100831 expression: liver heart brain kidney strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS02282	mwgrat10K#8152	af104398	af104398_1 cornichon - homo sapiens expression: liver brain heart strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS02294	mwgrat10K#8162	ak014369	ak014369_1 riken full-length enriched library, clone:3300002i08 - mus musculus expression: brain heart strains: sprague_dawley wistar_kyoto gbp
RATTUS02298	mwgrat10K#8166	ak015239	ak015239_1 riken full-length enriched library, clone:4930429h24 - mus musculus expression: heart brain strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS02333	mwgrat10K#8195	q9ugg6	39k3 protein expression: heart brain strains: sprague_dawley wistar_kyoto trembl
RATTUS02339	mwgrat10K#8200	q9jkw0	atf-6 interacting protein-1 expression: liver kidney brain strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS02445	mwgrat10K#8294		expression: liver brain strains: shrsp sprague_dawley wistar_kyoto mwg own new gene sequence

Figure 23

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Description
RATTUS02490	mwgrat10K#8335		expression: kidney brain strains: shrsp wistar_kyoto mwg own new gene sequence
RATTUS02564	mwgrat10K#8395	q9h871	cdna fj13910 fis, clone y79aa1000131; trembl q9h6w5 cdna: fj21795 hep00531 expression: liver strains: shrsp trembl
RATTUS02579	mwgrat10K#8408	q9hbm3	dipeptidyl peptidase 8 fragment expression: liver strains: shrsp trembl
RATTUS02653	mwgrat10K#8468	bc003862	bc003862_1 transmembrane 9 superfamily member 2 - mus musculus expression: liver heart kidney brain strains: shrsp sprague_dawley wistar_kyoto gbp
RATTUS02662	mwgrat10K#8476	q14667	kiaa0100 protein expression: liver kidney heart brain strains: shrsp sprague_dawley wistar_kyoto trembl
RATTUS02688	mwgrat10K#8499	q9hsl9	hypothetical 22.2 kda protein fragment expression: brain strains: wistar_kyoto trembl
RATTUS02717	mwgrat10K#8524	af295358	af295358_1 unknown - mus musculus expression: brain strains: wistar_kyoto gbp
RATTUS02731	mwgrat10K#8250	ak017729	ak017729_1 riken full-length enriched library, clone:5730494n05 - mus musculus; wistar_kyoto trembl cacc25005 sequence 49 from patent wo0100806 precursor expression: brain strains: shrsp gbp
RATTUS02792	mwgrat10K#8583	u59321	u59321_1 p72 dead-box protein p72 - homo sapiens expression: heart strains: wistar_kyoto gbp
RATTUS02814	mwgrat10K#8598	u58135	u58135_1 poly a polymerase v - mus musculus; heart trembl q9r1f3 testis-specific expression: liver kidney brain strains: shrsp wistar_kyoto gbp
RATTUS02918	mwgrat10K#8683	q92544	myeloblast kiaa0255 expression: liver strains: wistar_kyoto trembl
RATTUS02943	mwgrat10K#8699	q9h2j3	np0016 expression: liver strains: wistar_kyoto trembl
RATTUS02971	mwgrat10K#8723	bc002137	bc002137_1 cg13018 gene product - mus musculus expression: liver strains: wistar_kyoto gbp
RATTUS03203	mwgrat10K#8914	q9y6a4	transcription factor iib; trembl p70212 hypothetical 22.7 kda protein expression: liver brain strains: sprague_dawley wistar_kyoto trembl
RATTUS03223	mwgrat10K#8928	q9ji10	lmb1 long form expression: brain strains: sprague_dawley trembl
RATTUS03260	mwgrat10K#9233	q9y449	traf4-associated factor 2 fragment; shrsp expression: brain strains: sprague_dawley trembl
RATTUS03288	mwgrat10K#8981	o15194	ya22 protein hya22; kidney wistar_kyoto expression: brain strains: sprague_dawley trembl
RATTUS03326	mwgrat10K#9012	bc007154	bc007154_1 unknown protein for image:3485091 - mus musculus expression: brain strains: sprague_dawley gbp

Nucleotide GenBank		Protein Product	
Accession Number	Gene Name or Manufacturer	GeneBank	Accession Number or Manufacturer
Sequence ID	Probe Name	Sequence Reference	Description
RATTUS03387	mwgrat10K#9060	ak003050	ak003050_1 riken full-length enriched library, clone:0710008m05 - mus musculus expression: heart strains: sprague_dawley gbp
RATTUS03472	mwgrat10K#9126	u62325	u62325_1 hfe651 fe65-like protein - homo sapiens expression: heart strains: sprague_dawley gbp
RATTUS03489	mwgrat10K#9139	q9n150	hypothetical 28.7 kda protein fragment expression: liver strains: sprague_dawley trembl
RATTUS03495	mwgrat10K#9144	q9wuz9	nucleoside diphosphatase expression: liver strains: sprague_dawley trembl
RATTUS03510	mwgrat10K#9158	o75071	kiaa0494 protein expression: liver strains: sprague_dawley trembl
RATTUS03523	mwgrat10K#9169	ai356440	ai356440_1 d2989f11.1 d2989f11.1 d.melanogaster protein cg14464 - homo sapiens expression: liver strains: sprague_dawley gbp
UATTUS03577	mwgrat10K#9213	o35963	rab33b expression: brain strains: shrsp trembl
UATTUS03642	mwgrat10K#9265	cac09285	sequence 1 from patent wo9814562 fragment expression: brain strains: shrsp trembl
UATTUS03669	mwgrat10K#9288	bc009494	bc009494_1 unknown protein for mgc:16403 - homo sapiens expression: brain strains: shrsp gbp
UATTUS03700	mwgrat10K#9318	q9ncq3	ba11d8.1 yeast ubiquitin conjugating enzyme ubc6 homolog fragment expression: brain strains: shrsp trembl
UATTUS03772	mwgrat10K#9332	u95498	u95498_1 af1q - mus musculus expression: brain strains: shrsp sprague_dawley wistar_kyoto gbp
UATTUS03793	mwgrat10K#9398	o75061	kiaa0473 protein expression: brain strains: shrsp trembl
UATTUS03819	mwgrat10K#9421	o75061	kiaa0473 protein expression: brain strains: shrsp trembl
UATTUS03860	mwgrat10K#9455	q9y4c4	mas1 protein expression: heart strains: shrsp trembl
UATTUS03893	mwgrat10K#9483	q9ji15	c11orf17 protein expression: heart strains: shrsp trembl
RATTUS03951	mwgrat10K#9525	o00495	26s proteasome subunit 9 expression: heart strains: shrsp trembl
RATTUS03971	mwgrat10K#9537	x61585	x61585_1 polynucleotide adenylyltransferase - bos taurus expression: liver heart kidney strains: shrsp wistar_kyoto gbp
RATTUS04030	mwgrat10K#9583	bc002867	bc002867_1 unknown protein for image:3940519 - homo sapiens expression: kidney strains: shrsp gbp
RATTUS04036	mwgrat10K#9589	bc013036	bc013036_1 unknown protein for mgc:4734 - homo sapiens expression: kidney strains: shrsp gbp
RATTUS04052	mwgrat10K#9603	q9h4p0	clone cdabp0035 sequence expression: kidney strains: shrsp trembl
RATTUS04155	mwgrat10K#9696		expression: heart strains: sprague_dawley mwg own new gene sequence

Figure 23

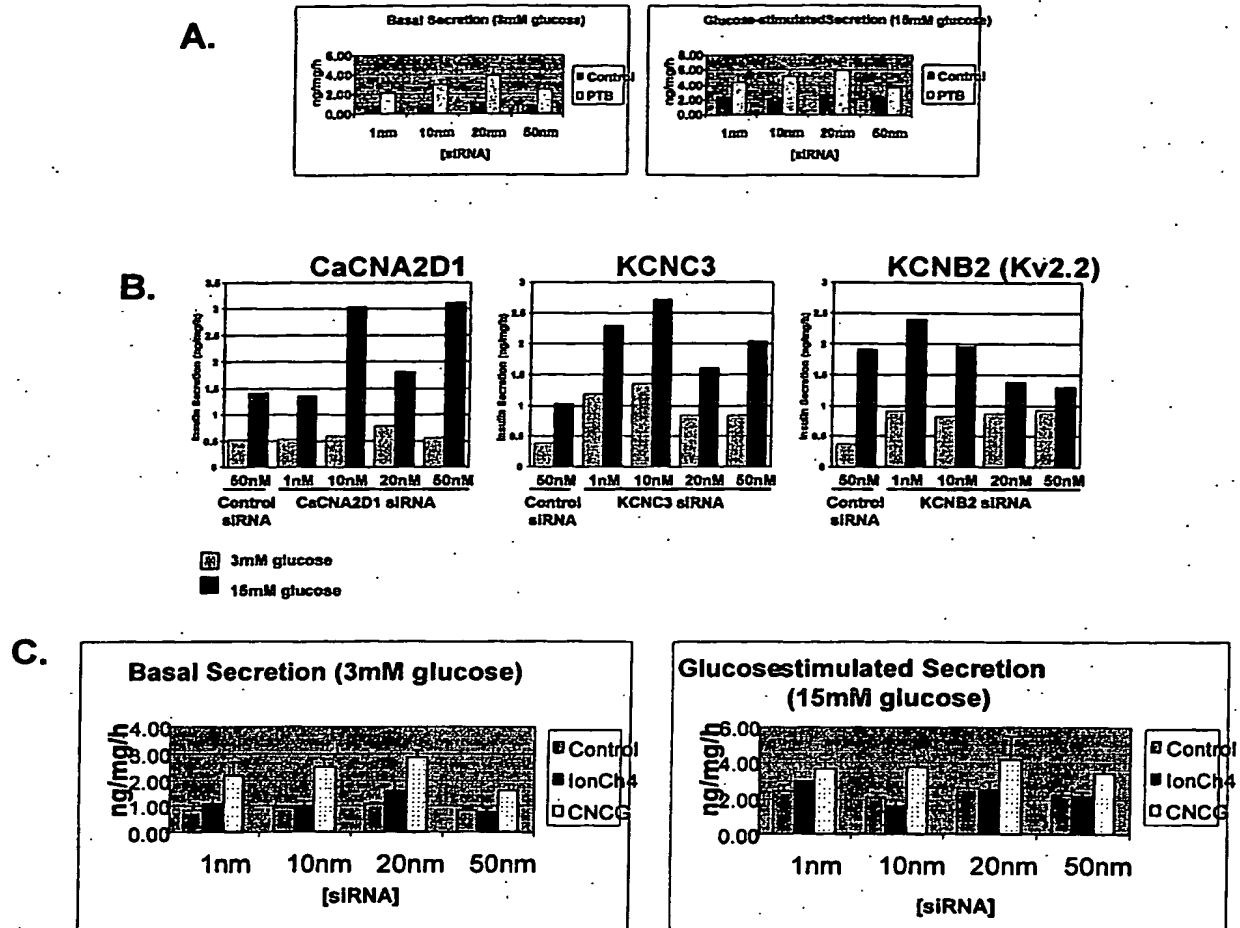


Figure 24

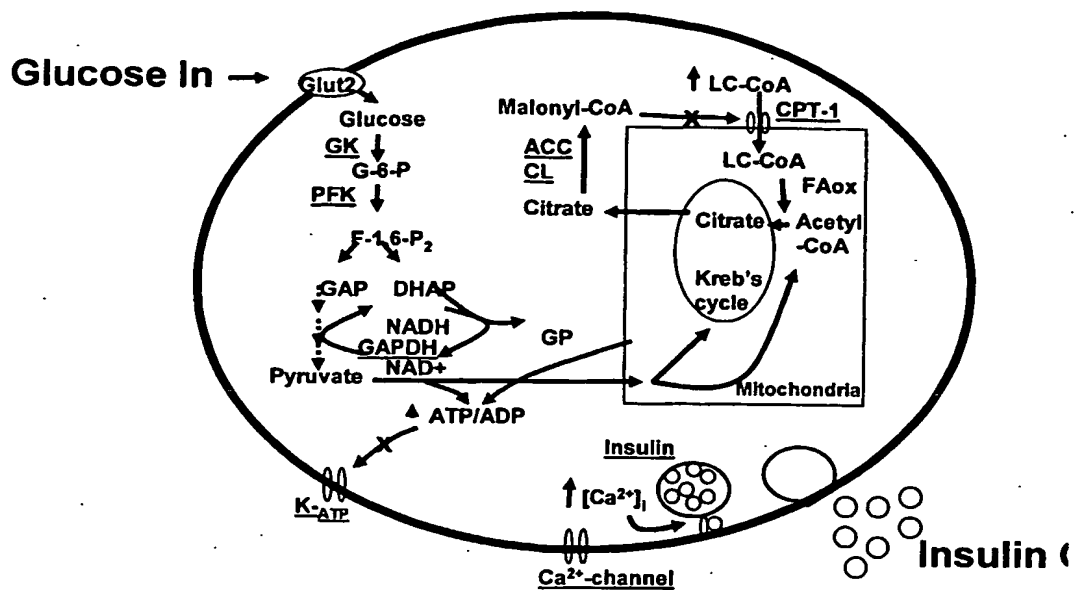


Figure 25

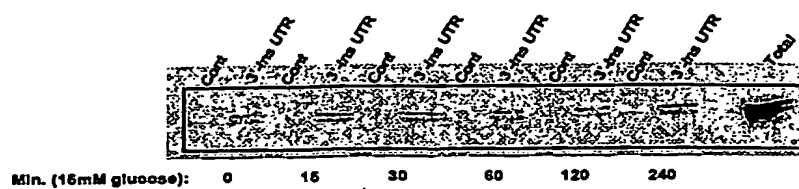


Fig. 26A

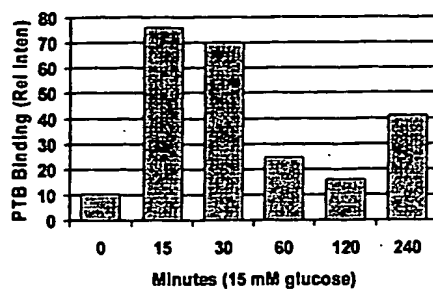


Fig. 26B

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product	
		GeneBank	Accession Number or Manufacturer Sequence
		Reference	Kinases
NM_031081	Pdpk1	NP_112343	Rattus norvegicus 3-phosphoinositide dependent protein kinase-1 (Pdpk1), mRNA.
NM_022799	Nucks	NP_073636	Rattus norvegicus nuclear ubiquitous casein kinase 2 (Nucks), mRNA.
NM_019248	Ntrk3	NP_062121	Rattus norvegicus neural receptor protein-tyrosine kinase (Ntrk3), mRNA.
NM_053585	Madd	NP_446037	Rattus norvegicus MAP-kinase activating death domain (Madd), mRNA.
NM_022627	Prkab2	NP_072149	Rattus norvegicus AMP-activated protein kinase beta-2 regulatory subunit (Prkab2), mRNA.
NM_012727	Camk4	NP_036859	Rattus norvegicus calcium/calmodulin-dependent protein kinase IV (Camk4), mRNA.
NM_012713	Prkcb1	NP_036845	Rattus norvegicus protein kinase C, beta 1 (Prkcb1), mRNA.
NM_013218	Ak3	NP_037350	Rattus norvegicus adenylate kinase 3 (Ak3), mRNA.
NM_017246	Map2k5	NP_058942	Rattus norvegicus mitogen activated protein kinase 5 (Map2k5), mRNA.
AB040531	RH2K	BAA96496	Rattus norvegicus mRNA for RH2K2, complete cds.
U39572		AAD10400	Rattus norvegicus phosphatidylinositol 4-kinase mRNA, complete cds.
NM_012565	Gck	NP_036697	Rattus norvegicus glucokinase (Gck), mRNA.
NM_032080	Gsk3b	NP_114469	Rattus norvegicus glycogen synthase kinase 3 beta (Gsk3b), mRNA.
NM_080584	Phkg2	NP_542151	Rattus norvegicus phosphorylase kinase, gamma 2 (testis) (Phkg2), mRNA.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product	
		GeneBank	Accession Number or Manufacturer Sequence
		Reference	Phosphatases
NM_012637	Ptpn1	NP_036769	Rattus norvegicus protein tyrosine phosphatase, non-receptor type 1 (Ptpn1), mRNA.
NM_019253	Ptpn5	NP_062126	Rattus norvegicus protein tyrosine phosphatase, non-receptor type 5 (Ptpn5), mRNA.
NM_010344		NP_057404	Rattus norvegicus protein tyrosine phosphatase, non-receptor type 5 (Ptpn5), mRNA.

Figure 27

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	Ion Channels/Regulators of Ion channels
NM_013080	Ptpnz1	NP_037212	Rattus norvegicus protein tyrosine phosphatase, receptor-type, Z polypeptide 1 (Ptpnz1), mRNA.
NM_053983	Dusp6	NP_446335	Rattus norvegicus dual specificity phosphatase 6 (Dusp6), mRNA.
NM_057115	Ptpn12	NP_476456	Rattus norvegicus protein tyrosine phosphatase, non-receptor type 12 (Ptpn12), mRNA.
NM_013098	G6pc	NP_037230	Rattus norvegicus glucose-6-phosphatase, catalytic (G6pc), mRNA.
AB040531	RH2K	BAA96496	Rattus norvegicus mRNA for RH2K2, complete cds.
AF013598		AAB69328	Rattus norvegicus proton gated cation channel DRASIC mRNA, complete cds.
NM_031548	Scnn1a	NP_113736	Rattus norvegicus sodium channel, nonvoltage-gated, type I, alpha polypeptide (Scnn1a), mRNA.
NM_012919	Cacna2d1	NP_037051	Rattus norvegicus calcium channel, voltage-dependent, alpha2/delta subunit 1 (Cacna2d1), mRNA.
NM_013192	Kcnj6	NP_037324	Rattus norvegicus potassium inwardly-rectifying channel, subfamily J, member 6 (Kcnj6), mRNA.
U78090		AAC34249	Rattus norvegicus potassium channel regulator 1 mRNA, complete cds.
AF290212		AAG35186	Rattus norvegicus calcium channel alpha-1-G subunit mRNA, complete cds.
NM_053497	Cnng	NP_445949	Rattus norvegicus cyclic nucleotide-gated cation channel (Cnng), mRNA.
Y14635		CAA74979	Rattus norvegicus mRNA for proton-gated cation channels modulatory subunit
AJ003065		CAA05839	Rattus norvegicus mRNA for Kir2.4, inwardly rectifying potassium channel.
NM_031828	Kcma1	NP_114016	Rattus norvegicus potassium large conductance calcium-activated channel, subfamily M, alpha member 1 (Kcma1), mRNA.
NM_054000	Kcnb2	NP_446452	Rattus norvegicus potassium voltage gated channel, Shab-related subfamily, member 2 (Kcnb2), mRNA.
NM_021853	Slack	NP_068625	Rattus norvegicus potassium channel subunit (Slack) (Slack), mRNA.
NM_019313	Kcnn1	NP_062186	Rattus norvegicus potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1 (Kcnn1), mRNA.
NM_013125	Scn5a	NP_037257	Rattus norvegicus sodium channel, voltage-gated, type V, alpha polypeptide (Scn5a), mRNA.
AJ309926	asic 1b	CAC44267	Rattus norvegicus mRNA for ion channel (asic 1b gene).
NM_053806	Kcnk6	NP_446258	Rattus norvegicus potassium channel, subfamily K, member 6 (TWIK-2) (Kcnk6), mRNA.

Figure 27

85/89

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	
		Transporters	
AB023645	ccc6	BAB40440	Rattus norvegicus ccc6 mRNA for cation-chloride cotransporter 6, complete cds.
AF239262	oatpE	AAK30042	Rattus norvegicus organic anion transporter E (oatpE) mRNA, complete cds.
AF273024		AAF81796	Rattus norvegicus amino acid system A transporter mRNA, complete cds.
AB000280	PHT1	BAA20489	Rattus norvegicus mRNA for peptide/histidine transporter, complete cds.
NM_017348	CHOT1	NP_059044	Rattus norvegicus choline transporter (CHOT1), mRNA.
AF268030		AAF72546	Rattus norvegicus copper transporter 1 mRNA, complete cds.
NM_022866	Slc13a3	NP_074057	Rattus norvegicus solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 (Slc13a3), mRNA.
AJ315643	Hmit	CAC51117	Rattus norvegicus mRNA for proton myo-inositol symporter (Hmit gene).
U55816	KCC2	AAC52635	Rattus norvegicus furosemide-sensitive K-Cl cotransporter (KCC2) mRNA, complete cds.
NM_013034	Slc6a4	NP_037166	Rattus norvegicus solute carrier family 6, member 4 (Slc6a4), mRNA.
NM_012879	Slc2a2	NP_037011	Rattus norvegicus solute carrier family 2, member 2 (Slc2a2), mRNA.

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	
		Proteases/Peptidases	
NM_012836	Cpd	NP_036968	Rattus norvegicus carboxypeptidase D (Cpd), mRNA.
AF202454		AAF17575	Rattus norvegicus testis ubiquitin specific processing protease mRNA, complete cds.
NM_017145	Mcp1f	NP_058841	Rattus norvegicus mast cell protease 1 (Mcp1f), mRNA.

Figure 27

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product		Receptors
		GeneBank	Accession Number or Manufacturer Sequence	
		Reference		
NM_019246	Pcsk7	NP_062119	Rattus norvegicus proprotein convertase subtilisin / kexin, type 7 (Pcsk7), mRNA.	
NM_017138	Lamr1	NP_058834	Rattus norvegicus laminin receptor 1 (67kD, ribosomal protein SA) (Lamr1), mRNA.	
NM_012637	Plpn1	NP_036769	Rattus norvegicus protein tyrosine phosphatase, non-receptor type 1 (Plpn1), mRNA.	
NM_016996	Casr	NP_058692	Rattus norvegicus calcium-sensing receptor (Casr), mRNA.	
NM_019248	Nlrk3	NP_062121	Rattus norvegicus neural receptor protein-tyrosine kinase (Nlrk3), mRNA.	
U47331		AA488788	Rattus norvegicus metabotropic glutamate receptor 4b mRNA, complete cds.	
NM_019328	Nr4a2	NP_062201	Rattus norvegicus nuclear receptor subfamily 4, group A, member 2 (Nr4a2), mRNA.	
NM_012869	Npy5r	NP_037001	Rattus norvegicus neuropeptide Y receptor Y5 (Npy5r), mRNA.	
NM_019253	Plpn5	NP_062126	Rattus norvegicus protein tyrosine phosphatase, non-receptor type 5 (Plpn5), mRNA.	
NM_052807	Igf1r	NP_434694	Rattus norvegicus insulin-like growth factor 1 receptor (Igf1r), mRNA.	
NM_013080	Plprz1	NP_037212	Rattus norvegicus protein tyrosine phosphatase, receptor-type, Z polypeptide 1 (Plprz1), mRNA.	
NM_031628	Nr4a3	NP_113816	Rattus norvegicus nuclear receptor subfamily 4, group A, member 3 (Nr4a3), transcript variant 1, mRNA.	
NM_017011	Grm1	NP_058707	Rattus norvegicus glutamate receptor, metabotropic 1 (Grm1), mRNA.	
NM_013091	Tnfrsf1a	NP_037223	Rattus norvegicus tumor necrosis factor receptor superfamily, member 1a (Tnfrsf1a), mRNA.	
NM_017071	Insr	NP_058767	Rattus norvegicus insulin receptor (Insr), mRNA.	
AF161588	Gabarap	AAD47643	Rattus norvegicus GABA-A receptor-associated protein (Gabarap) mRNA, complete cds.	
NM_057115	Plpn12	NP_476456	Rattus norvegicus protein tyrosine phosphatase, non-receptor type 12 (Plpn12), mRNA.	
NM_012528	Chmb1	NP_036660	Rattus norvegicus cholinergic receptor, nicotinic, beta polypeptide 1 (Chmb1), mRNA.	
AF010293	U131	AA866333	Rattus norvegicus olfactory receptor (U131) mRNA, complete cds.	
NM_012957	Gabrb2	NP_037089	Rattus norvegicus gamma-aminobutyric acid receptor, subunit beta 2 (Gabrb2), mRNA.	
NM_012959	Gfra1	NP_037091	Rattus norvegicus glial cell line derived neurotrophic factor family receptor alpha 1 (Gfra1), mRNA.	
NM_053296	Glib	NP_445748	Rattus norvegicus glycine receptor, beta subunit (Glib), mRNA.	
AF205193		AAF19028	Rattus norvegicus glutamate receptor interacting protein 2 mRNA, complete cds.	
Z23272		CAA80810	R.norvegicus PACAP receptor, hip-hop1 splice variant, complete CDS.	
AF230645		AAF36975	Rattus norvegicus testis-type galactosyl receptor mRNA, complete cds.	

Figure 27

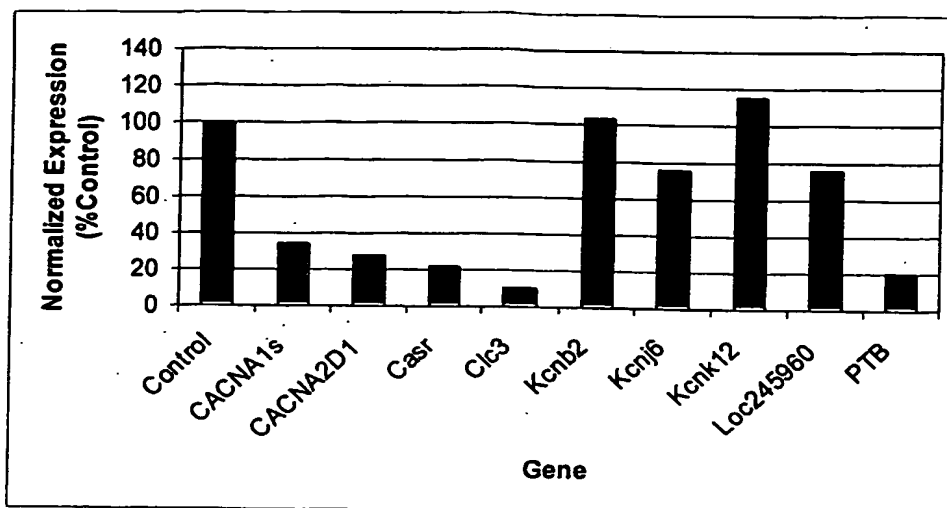
Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference	
NM_012896	Adora3	NP_037028	Rattus norvegicus adenosine A3 receptor (Adora3), mRNA.
NM_024146	Fgfr1	NP_077060	Rattus norvegicus Fibroblast growth factor receptor 1 (Fgfr1), mRNA.
NM_022186	Nrbf2	NP_071522	Rattus norvegicus nuclear receptor binding factor 2 (Nrbf2), mRNA.
U22830		AAA91303	Rattus norvegicus P2Y purinoceptor mRNA, complete cds.
NM_021745	Nr1h4	NP_068513	Rattus norvegicus nuclear receptor subfamily 1, group H, member 4 (Nr1h4), mRNA.
NM_013124	Pparg	NP_037256	Rattus norvegicus peroxisome proliferator activated receptor, gamma (Pparg), mRNA.
AJ011370	5-HT4	CAA09599	Rattus norvegicus mRNA for serotonin 4 receptor, splice variant r5-HT4(e).
AF016387	RXRgamma	AAD01591	Rattus norvegicus retinoid X receptor gamma (RXRgamma) mRNA, partial cds.
NM_022212	Insr	NP_071548	Rattus norvegicus insulin receptor-related receptor (Insr), mRNA.
Transferases			
NM_022635	Cml4	NP_072157	Rattus norvegicus putative N-acetyltransferase Camello 4 (Cml4), mRNA.
NM_022280	Lrat	NP_071616	Rattus norvegicus lecithin-retinol acyltransferase (Lrat), mRNA.
X14211		CAA32428	Rat mRNA for phenylethanolamine-N-methyltransferase (PNMT).
NM_031635	Fut2	NP_113823	Rattus norvegicus fucosyltransferase 2 (Fut2), mRNA.
NM_013029	Siat8c	NP_037161	Rattus norvegicus sialyltransferase 8 C (Siat8c), mRNA.
NM_031980	Ugt2b12	NP_114186	Rattus norvegicus UDP-glucuronosyltransferase (Ugt2b12), mRNA.
NM_022219	Fut4	NP_071555	Rattus norvegicus alpha 1,3-fucosyltransferase Fuc-T (similar to mouse Fut4) (Fut4), mRNA.
NM_053437	Dgat1	NP_445889	Rattus norvegicus diacylglycerol O-acyltransferase 1 (Dgat1), mRNA.

Figure 27

Nucleotide GenBank Accession Number or Manufacturer Sequence ID	Gene Name or Manufacturer Probe Name	Protein Product GeneBank Accession Number or Manufacturer Sequence Reference		Transcription Factors
NM_012747	Stat3	NP_036879		Rattus norvegicus signal transducer and activator of transcription 3 (Stat3), mRNA.
NM_017339	Isl1	NP_059035		Rattus norvegicus ISL1 transcription factor, LIM/homeodomain 1 (Isl1), mRNA.
NM_021770	Olig1	NP_068538		Rattus norvegicus oligodendrocyte transcription factor 1 (Olig1), mRNA.

Figure 27

A.



B.

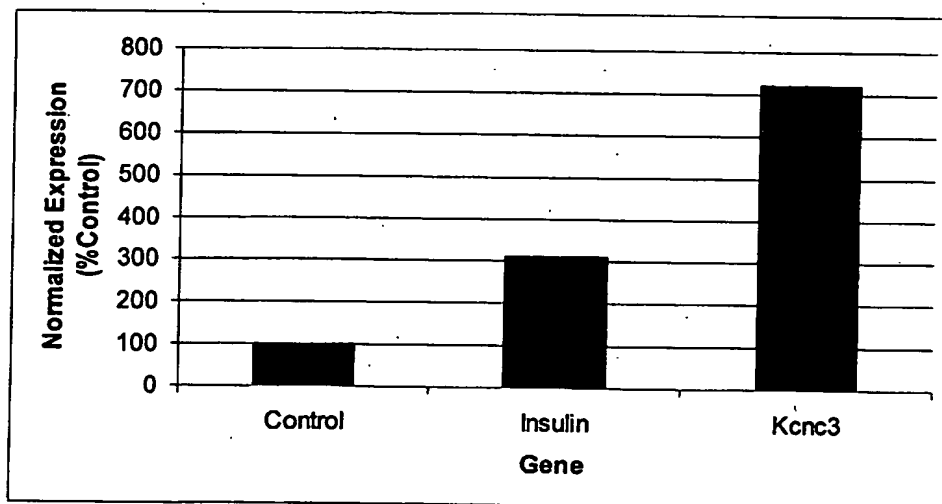


Figure 28